

**XEROX®**

Technology | Document Management | Consulting Services

Xerox Supplies  
**Wide Format Paper  
and Specialty Media**  
Display Graphics Applications Guide  
**For Aqueous Inkjet Printing**



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# Table of Contents

<b>Introduction .....</b>	<b>1</b>
International Version .....	1
International Paper Weight Measurement.....	2
<b>Image Quality &amp; Graphics Durability .....</b>	<b>3</b>
Choosing Appropriate Materials.....	3
1. What is the end-use of the application you are printing? .....	3
2. Are you using dye or pigment inks? .....	3
3. Will the print be used indoors or outdoors? .....	3
4. Will the print be exposed to sunlight or UV radiation? .....	3
5. Will the print be subject to extremes of temperature, hot or cold? .....	3
6. How long is the print required to last?.....	3
7. Will the print be displayed more than once? .....	3
Image Quality.....	4
• Expectations .....	4
• Environment .....	4
• Consider Alternatives.....	4
• Printer Speed .....	4
• Pantone® Colors .....	5
• Cockle .....	5
• Drying & Distortion.....	5
• Banding .....	5
Xerox Media Setup Reference for 8142/8160 .....	6
Durability of Graphics .....	8
Media Fire Resistance and Retardancy.....	9
Definitions .....	9
Printing/Storage Information.....	9
Generally for Inks and Media .....	10
Shelf Life .....	10
Compatibility .....	10
<b>Where to Order Supplies.....</b>	<b>11</b>
Europe .....	11
United States .....	11
Canada .....	11

<b>Ink Data Sheets .....</b>	<b>13</b>
Aqueous Inks .....	13
Epson Stylus Pro Ultrachrome® Inks – Available Europe Only .....	14
Ink Yields .....	15
 <b>Application Media.....</b>	 <b>17</b>
Media Selection – Application Overview .....	17-18
Printer Compatibility .....	19-20
 <b>Media Product Data Sheets .....</b>	 <b>21</b>
Media Item Details.....	21-28
Xerox Premium Coated CAD Paper 95 g/m <sup>2</sup> .....	29
Xerox Matte Presentation Paper 90 g/m <sup>2</sup> .....	30
Xerox Matte Presentation Paper 120 g/m <sup>2</sup> .....	31
Xerox Matte Presentation Paper 160 g/m <sup>2</sup> .....	32
Xerox Premium Presentation Paper 120 g/m <sup>2</sup> .....	33
Xerox Premium Presentation Paper 170 g/m <sup>2</sup> .....	34
Xerox Photo Paper 150 g/m <sup>2</sup> .....	35-36
Xerox Universal Photo Paper 175 g/m <sup>2</sup> .....	37-38
Xerox Universal Photo Paper 195 g/m <sup>2</sup> .....	39-40
Xerox Universal Photo Paper 215 g/m <sup>2</sup> .....	41-42
Xerox Universal Photo Paper 285 g/m <sup>2</sup> .....	43-44
Xerox Display Paper 95 g/m <sup>2</sup> .....	45
Xerox Display Paper – Fire Retardant 120 g/m <sup>2</sup> .....	46
Xerox 120 g/m <sup>2</sup> Outdoor Poster Paper – Blue Back.....	47
Xerox Canvas Paper 180 g/m <sup>2</sup> .....	48
Xerox Optically Clear Film 120 micron .....	49
Xerox Optically Clear Film (with removable edge strip) 100 micron .....	50
Xerox White Opaque Glossy Film 120 micron.....	51
Xerox Backlit Film (back print) 130 micron .....	52
Xerox Backlit Film (front print) 140 micron.....	53
Xerox Metallic Film .....	54
Xerox Polycarbonate Pop-Up Film & Backer .....	55
Xerox Light Stop Pop-Up Film (front print).....	56
Xerox White Matte Banner Film 200 micron .....	57
Xerox Banner Polyester 290 micron .....	58
Xerox Matte Polypropylene Banner 185 & 320 micron .....	59
Xerox Banner Vinyl 400 g/m <sup>2</sup> .....	60

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Xerox Outdoor Banner Vinyl 550 g/m <sup>2</sup> .....	61-62
Xerox Outdoor Weatherproof Banner 280 micron – TYVEK® Solution.....	63
Xerox Banner Fabric – Fire Retardant 250 g/m <sup>2</sup> .....	64
Xerox Universal Artist Canvas 340 g/m <sup>2</sup> .....	65
Xerox Translucent Repositionable Film .....	66
Xerox Self Adhesive Vinyl 275 micron .....	67
 <b>Application Ideas and Procedures .....</b>	 <b>69</b>
General Hints & Tips .....	69
1. Poster/Single Panel Print.....	70
2. Proofs/Check-Plots .....	70
3. Mounted Print .....	71
4. Multi-Panel Images .....	71
5. Billboard .....	72
6. Backlit Display.....	73
7. Banners.....	74
8. Self Adhesive Vinyl.....	75-79
9. Fabric .....	80
10. CAD/GIS, Engineering and Technical .....	81
11. Archive Conditions and Specifications.....	82
 <b>Lamination Overview .....</b>	 <b>83</b>
Introduction .....	83
Understanding Laminates .....	84
Lamination Production Notes .....	85
Lamination/Media Guidance.....	86
 <b>Glossary of Terms .....</b>	 <b>87-92</b>



# Introduction

This guide is designed to assist with the selection of media for wide format graphic arts printing using aqueous or water-based inkjet printing systems in the corporate or “print-for-pay” graphics arts market, and in CAD/GIS applications.

The following guide represents a compilation of media and applications for digital printing using a wide range of commonly used aqueous inkjet printers, including the Xerox 8142/8160 wide format color printer. It is intended to be a general guide, to provide a starting point for users to select media that suit their printer model and ink type, and the specific application itself.

Although it is not possible to cover every application, the guide does offer examples of many of the applications common to inkjet printing.

The procedures in this guide are general and assume that you are already familiar with the user guide for the particular printer model and overall printer/RIP software functions. Experiment with the steps to construct a complete graphic and choose those that work well with your equipment.

Individual media data pages give product-specific details and production tips. The Applications Ideas and Procedures section gives instructions and tips specific to a range of common applications. An overview of lamination techniques is also included.

All Xerox Inkjet media are tested and supported for the printing applications described and are backed by the usual Xerox guarantees.

Xerox identifies the media recommended for aqueous inkjet printing with a pale aqua-colored band on the label. These media should **not** be confused with inkjet media for oil or solvent systems. The media described in this guide are **not** suitable for existing Xerox color inkjet systems such as the Xerox X2.

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## International Version

This guide includes information applicable internationally and also some details of products only available in specific regions due to local market requirements. It is also possible that some sizes are not readily available in all markets. Measurements are shown in both imperial and metric scales where appropriate.

**If you have a requirement for a size or a product not normally stocked in your region, or for a product not listed, please speak to your supplies sales representative.**

## International Paper Weight Measurement

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### Bond (lbs.) to Metric (gram) comparison

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Bond 17" x 22"	Metric g/m <sup>2</sup>
13	49
16	61
20	75
24	90
28	105
32	120
36	135
40	158

Bond – the weight of a ream (500 sheets) of 17" x 22"

g/m<sup>2</sup> – weight in grams of a square meter sheet

### Micron to mil (caliper) comparison

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Please note that various products are referenced in microns referring to the products' thickness or caliper. A quick conversion has 1 mil = 25 microns.

Microns	Mil
100	4
125	5
150	6
175	7
200	8
225	9
250	10
275	11
300	12
350	14
375	15



# Image Quality & Graphics Durability

## Choosing Appropriate Materials

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The most common mistake when constructing a graphic is using incorrect materials. The choice of materials for a given application requires critical information about the end-use. Ask the following questions to determine the application requirements. Then use the information in this guide to select the media, laminate and substrate (if necessary) that will work best. You can also refer to the Xerox on-line media selection tool for quick reference.

**1. What is the end-use of the application you are printing?**

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**2. Are you using dye or pigment inks?**

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**3. Will the print be used indoors or outdoors?**

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**4. Will the print be exposed to sunlight or UV radiation?**

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**5. Will the print be subject to extremes of temperature, hot or cold?**

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**6. How long is the print required to last?**

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**7. Will the print be displayed more than once?**

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## Image Quality

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Xerox Wide Format Display Graphics media are all direct-write, specially coated materials that vary in coating structure, physical properties (such as base weight and thickness), and base material type (paper, fabric, films or vinyl). These variances not only need a specific printer set-up to successfully run each material through the printer, but will affect achievable image quality per media type.

The coating layer or layers on each media type differ because the structure must take account of base properties (i.e. thickness, absorbency, smoothness, texture), to provide suitable adhesion to both printed image (ink) and the base material, and the base-coating combination must meet the needs of the application. The coating layer on each media is specified to print within a range of resolutions from 300 dpi to 1440 dpi.

These variances will cause some differences in achievable image quality per media type. For example, canvas will give a different image quality in comparison to photo-base paper even if both are printed in the same resolution.

Profiles to suit your RIP and printer model should be calibrated specifically for the unique requirements of each media although certain generic settings will enable good color reproduction. This guide gives some direction on which settings will suit each media type.

The following tips may help you to understand the image quality you should expect when using Xerox media in your printer, as well as offering hints for ensuring output quality meets application needs:

### Expectations

The image quality of one media will vary from one media to another. All media are designed for a set of applications with their own image quality requirements. Selecting the right media will ensure that your image quality expectations are met.

### Environment

Application, viewing distance, and environment of the print must be considered when determining if output quality is acceptable (e.g. viewing distance of 16 ft (5 m) or more may allow some degree of imperfection in the image.) Pigment inks provide longer image life, but the colors may not appear as vivid as with dye inks.

### Consider Alternatives

More than one media type may suit any given application. Ease-of-use, image quality, and installation environment all have a bearing on selection. Be prepared to experiment with various products.

### Printer Speed

Due to specific media characteristics, different print modes or printing speeds are used. Printer settings and color profiles are normally pre-programmed to give the best output at the optimum speed. These may be overridden to suit individual requirements. For projects requiring duplicate images in significant quantities, run test images in various modes to determine the most appropriate speed for your application.

## Pantone® Colors

Color reproduction is a function of the RIP or software connected to the printer. Xerox provides profiles for Xerox media when used with the RIP and a Xerox printer. These profiles are balanced to perform in a wide range of color applications and media. The software is designed to reproduce the process version of Pantone® colors only. You should perform a test print from your desired application through the RIP to determine the range of color available in your system. Most RIPs supplied by Xerox will also allow the user to update, adjust or create color profiles to meet specific color requirements.

Ensure the specified media color profile is used. For Xerox printers and software, these can be downloaded from [www.xerox.com](http://www.xerox.com) or ask your supplies and sales representative service support.

## Cockle

Exceeding the media ink limits can cause cockle. This is undesirable not only in the finished print, but also because it may result in head strikes. A head strike occurs when the print head rubs a raised point on the media surface. All Xerox inkjet media is tested to ensure that recommended settings and profiles will not risk a problem with head strike and will have acceptable finished quality when dried.

## Drying & Distortion

The Xerox 8142/8160 includes a heat drier on the output table. The drier can be used to ensure the print is evenly and quickly dried by passing through the heater at constant speed after the trailing edge of the print has passed beneath the writing heads. The drier has several settings and care must be taken to ensure the correct setting is used. Applying too much heat to dry the print can cause media distortion.

## Banding

A certain level of banding may be visible in inkjet printers; it is inherent to the inkjet printing technology. Some possible actions to address banding:

- a) **Increase Passes** - Banding becomes more obscured as the number of passes is increased.
- b) **Set Printing Direction** - Printing in unidirectional mode generally gives less banding than bidirectional mode.
- c) **Adjust Carriage Speed** - Xerox 8142/8160 gives the operator the ability to slow the carriage speed, to help improve print quality.
- d) **Convert Black** - Convert single color black areas to four-colors (CMYK) in the application software.
- e) **Rotate** - Try rotating the image to reduce the appearance of banding.

## Xerox Media Setup Reference for 8142/8160

	Recommended Printer Heater & Fan Settings <sup>1</sup>	Recommended Print Mode
<b>Presentation Papers</b>		
Xerox Matte Presentation Paper / 160g	Heat Off, Fan Off	Production
Xerox Poster Presentation Paper / 120g	Heat Off, Fan Off	Production
Xerox Poster Presentation Paper / 170g	Heat Off, Fan Off	Production
<b>Photo Papers</b>		
Xerox Photo Paper Gloss / 150g	Low Heat, Fan On	Production
Xerox Photo Paper Satin / 150g	Low Heat, Fan On	Production
Xerox Universal Photo Paper Gloss / 175g	Medium Heat, Fan On	Production
Xerox Universal Photo Paper Satin / 175g	Medium Heat, Fan On	Production
Xerox Universal Photo Paper Gloss / 195g	Medium Heat, Fan On	Production
Xerox Universal Photo Paper Satin / 195g	Medium Heat, Fan On	Production
Xerox Universal Photo Paper Gloss / 215g	Medium Heat, Fan On	Production
Xerox Universal Photo Paper Satin / 215g	Medium Heat, Fan On	Production
Xerox Universal Photo Paper Gloss / 285g	Medium Heat, Fan On	Fine
Xerox Universal Photo Paper Satin / 285g	Medium Heat, Fan On	Fine
<b>Specialist Application Papers</b>		
Xerox Outdoor Poster Paper - Blue Back / 120g	Min Heat, Fan Off	Production
<b>Films</b>		
Xerox Optically Clear Film / 120mic	Heat Off, Fan On	Production
Xerox Optically Clear Film - 2 Edge Strip / 100mic	Heat Off, Fan On	Production
Xerox White Opaque Glossy Film / 120mic	Heat Off, Fan Off	Production
Xerox Backlit Film – Back Print / 130mic	Heat Off, Fan On	Fine
Xerox Backlit Film – Front Print / 140mic	Heat Off, Fan On	Fine
Xerox Metallic Film – Silver / 100mic	Heat Off, Fan On	Production
Xerox Metallic Film – Gold / 100mic	Heat Off, Fan On	Production

1: Individual results may vary. Recommended settings are intended to be used as a starting point, based on room conditions of 23°C / 73°F and 50% Relative Humidity.

	Recommended Printer Heater & Fan Settings <sup>1</sup>	Recommended Print Mode
<b>Films (continued)</b>		
Xerox Polycarbonate Pop-Up Film – Back Print / 275mic	Heat Off, Fan On	Fine
Xerox White Polyester Self-adhesive Light Stop Backer / 275mic	Heat Off, Fan On	Production
Xerox Light Stop Pop-Up Film – Front Print / 300mic	Heat Off, Fan On	Production
Xerox White Matte Banner Film / 200mic	Heat Off, Fan On	Production
<b>Banner Media</b>		
Xerox Outdoor Weatherproof Banner / 280mic	Heat Off, Fan On	Production
Xerox Universal Matte Artist Canvas / 340g	Heat Off, Fan On	Fine
Xerox Banner Fabric Fire Retardant / 250g	Heat Off, Fan On	Production
Xerox Banner Polyester / 290mic	Heat Off, Fan On	Production
Xerox Matte Polypropylene Banner / 320mic	Heat Off, Fan On	Production
Xerox Banner Vinyl / 400g	Heat Off, Fan On	Production
Xerox Banner Vinyl / 550g	Heat Off, Fan On	Production
<b>Self-Adhesive Media</b>		
Xerox Translucent Repositionable Film / 225mic	Heat Off, Fan On	Production
Xerox Optically Clear Inkjet Film – Self Adhesive / 140mic	Heat Off, Fan On	Production
Xerox Self Adhesive Vinyl / 275mic	Heat Off, Fan On	Production

1: Individual results may vary. Recommended settings are intended to be used as a starting point, based on room conditions of 23°C / 73°F and 50% Relative Humidity.

## Durability of Graphics

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Durability is a function of both ink and media. Pigmented inks give the most durable results and, in some cases, outdoor suitability although this depends on the specifics of the ink-type as well as the media. While images and colors printed with pigment inks will resist fading, dye-printed images will fade more quickly under exposure to light.

Over-laminates and encapsulation will extend the life of most images, protecting against moisture, mechanical handling, abrasion or UV exposure.

Outdoor suitability of prints made with aqueous ink systems is not comparable to oil or solvent ink systems. Media may be described as having “outdoor” capabilities based on the fact that it can withstand water, wind, UV or pollution. But the longevity of a print is dependent on the ink itself. For example, Xerox Outdoor Paper Blue Back is designed to withstand weathering in an outdoor billboard application, but it will only provide a basis for short-term image life limited by the capabilities of water-based inks. An outdoor poster paper may have at least twice the life if temperatures are mild and conditions are dry, than if exposed to high rainfall interspersed with sunshine.

## Media Fire Resistance and Retardancy

For exhibition graphics there are sometimes requests for flammability ratings of products. The main standards used are the French “M” ratings, German “B” ratings (B1 often considered similar but not higher than M1) and the US NFPA standards. There is no common international standard at this time.

### Definitions

#### M1

A material is classified M1 if the tests with the electrical burner (NF P 92-503) results in:

- No inflammation remaining longer than 5 seconds after removing the flame
- No points of ignition with flame propagation higher than 25 cm above the lower edge of the probe
- No drops of flaming material (test for thermo fusible materials NF P 92-505 to be passed)

If the material pierces without inflammation or with inflammation which subsides within 5 seconds, the persistency test (NF P 92-504) results in **no flame persistency at all and no burning material drops**.

#### M2

A material is classified M2 if it does not fall into category M1 because

- Inflammation persists longer than 5 seconds after removing of the flame
- Destruction of the material deeper than 35 cm from the lower edge of the probe is observed
- No drops of flaming material (test for thermo fusible materials NF P 92-505 to be passed)

If the material pierces without inflammation or with inflammation, which subsides within 5 seconds, the persistency test (NF P 92-504) results in **flame persisting for no longer than 5 seconds without propagation and no burning material drops**.

## Printing/Storage Information

Ink and media are sensitive to environmental conditions. It is important that supplies are kept in a controlled area for the best image quality and operation when used in the printer.

## Generally for Inks and Media

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	Temperature	Relative Humidity
Printing	64–86°F (18–30°C)	40–65%
Storage	41–95°F (5–35°C)	40–60%

**Please Note:** If media are stored outside the range of conditions stated above, the media should be allowed to acclimatize in the proper environment for at least 48 hours prior to use. Consult the individual data sheets for any specific printing and storage conditions. Ink and media should be stored in original packaging wherever possible.

**Important:** Inks can be permanently damaged if exposed to temperatures outside their range for any period of time.

## Shelf Life

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Image quality and printer performance are best when the supplies used are within manufacturing specifications. To ensure this quality, the supplies have a storage life. If kept in original unopened packaging, shelf life from date of manufacture is:

- Paper & Film 2 years
- Vinyl & Self-adhesive Media 1 year
- Inks 2 years

## Compatibility

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This guide is designed for Xerox wide format aqueous inkjet printers but most of the media listed in this guide are also suitable for printing on other commonly available aqueous inkjet printers. There will inevitably be some differences in print performance according to the specific printer, ink system, and RIP software.



# Where to Order Supplies

## Europe

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Address	Telephone Number
Xerox Supplies Europe	+44 (0) 1442 88 6019

## United States

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Address	Telephone Number
Xerox Supplies US	1-800-822-2200

Or contact your Xerox Wide Format Authorized Reseller

## Canada

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Address	Telephone Number
Xerox Supplies Canada	1-800-668-0199 (English) 1-800-688-0133 (French)

For other local country information please check [www.xerox.com](http://www.xerox.com)



# Ink Data Sheets

## Aqueous Inks

### Xerox 8142/8160 Dye & Pigment Inks & Consumables

	Description	Code
700 ml	81XX Ink Refill – Pigment Black	008R12910
700 ml	81XX Ink Refill – Pigment Cyan	008R12997
700 ml	81XX Ink Refill – Pigment Magenta	008R12998
700 ml	81XX Ink Refill – Pigment Yellow	008R12999
700 ml	81XX Ink Refill – Pigment Light Cyan	008R12909
700 ml	81XX Ink Refill – Pigment Light Magenta	008R12975
700 ml	81XX Ink & Cartridge Pack – Pigment Black	008R12979
700 ml	81XX Ink & Cartridge Pack – Pigment Cyan	008R12976
700 ml	81XX Ink & Cartridge Pack – Pigment Magenta	008R12977
700 ml	81XX Ink & Cartridge Pack – Pigment Yellow	008R12978
700 ml	81XX Ink & Cartridge Pack – Pigment Light Cyan	008R12980
700 ml	81XX Ink & Cartridge Pack – Pigment Light Magenta	008R12981
700 ml	81XX Ink Refill – Dye Black	008R12994
700 ml	81XX Ink Refill – Dye Cyan	008R12991
700 ml	81XX Ink Refill – Dye Magenta	008R12992
700 ml	81XX Ink Refill – Dye Yellow	008R12993
700 ml	81XX Ink Refill – Dye Light Cyan	008R12995
700 ml	81XX Ink Refill – Dye Light Magenta	008R12996
700 ml	81XX Ink & Cartridge Pack – Dye Black	008R12971
700 ml	81XX Ink & Cartridge Pack – Dye Cyan	008R12974
700 ml	81XX Ink & Cartridge Pack – Dye Magenta	008R12973
700 ml	81XX Ink & Cartridge Pack – Dye Yellow	008R12972
700 ml	81XX Ink & Cartridge Pack – Dye Light Cyan	008R12970
700 ml	81XX Ink & Cartridge Pack – Dye Light Magenta	008R12969
	81XX Ink Switch Over Kit	008R12982
	81XX Cleaning Kit	008R12983
Pack of 5	81XX Cutting Blades	008R12932

## Epson Stylus Pro Ultrachrome® Inks – Available Europe Only

	Description	Code
500 ml	UC Ink – 10600 – Photo Black	106R00691
500 ml	UC Ink – 10600 – Matte Black	106R00692
500 ml	UC Ink – 10600 – Yellow	106R00693
500 ml	UC Ink – 10600 – Magenta	106R00694
500 ml	UC Ink – 10600 – Cyan	106R00695
500 ml	UC Ink – 10600 – Light Magenta	106R00696
500 ml	UC Ink – 10600 – Light Cyan	106R00697
220 ml	UC Ink – 9600 – Photo Black	106R00706
220 ml	UC Ink – 9600 – Cyan	106R00707
220 ml	UC Ink – 9600 – Magenta	106R00708
220 ml	UC Ink – 9600 – Yellow	106R00709
220 ml	UC Ink – 9600 – Light Cyan	106R00710
220 ml	UC Ink – 9600 – Light Magenta	106R00711
220 ml	UC Ink – 9600 – Light Black	106R00712
220 ml	UC Ink – 9600 – Matte Black	106R00713
110 ml	UC Ink – 7600 & 9600 – Photo Black	106R00698
110 ml	UC Ink – 7600 & 9600 – Cyan	106R00699
110 ml	UC Ink – 7600 & 9600 – Magenta	106R00700
110 ml	UC Ink – 7600 & 9600 – Yellow	106R00701
110 ml	UC Ink – 7600 & 9600 – Light Cyan	106R00702
110 ml	UC Ink – 7600 & 9600 – Light Magenta	106R00703
110 ml	UC Ink – 7600 & 9600 – Light Black	106R00704
110 ml	UC Ink – 7600 & 9600 – Matte Black	106R00705

## Product Descriptions

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Aqueous or water-based inks are either pigmented or dye-based. Each ink type and its performance are specific to each printer model.

Xerox 8142 and 8160 offers 6-color printing, adding two tonal inks, Light Cyan and Light Magenta, to the typical suite of 4-color process printing (Cyan, Magenta, Yellow, and Black). These colors improve the gradient perception between dithered process color shifts, or (smoothes out) blended areas of an image by introducing lighter tones of the colors that construct the blend. For example, skin tones appear truer because the color of dots creating the image is not as dark from one percentage to the next.

Dye inks generally give more brilliant color that fades relatively rapidly. Pigment inks may not give as bright a color reproduction, but pigment ink prints usually resist fading to a much greater extent and therefore remain as good as new for longer periods. Some pigmented ink systems such as Epson Ultrachrome® and Xerox 8142 and 8160 pigmented inks can give print life expectancy of several decades, subject to using appropriate media.

## Ink Yields

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Ink yields are ultimately determined by the image being printed. For example, heavily saturated images will consume more ink at different ratios than light ink coverage graphics.

Higher resolution printing also increases consumption of ink.

The ink yield for the Xerox 8142/8160 is estimated at 1.2 ml/sq. ft. of average area coverage graphics for a set of 6 inks at 700 ml of useable ink each.



# Application Media

## Media Selection – Application Overview

### Appropriate Applications for Media

This guide is designed to offer information and guidance to assist you. It is not an instruction manual. While care has been taken to anticipate problems and outline possible difficulties, it is impossible to cover all situations. Therefore, it is highly recommended that you test any application before an actual job is attempted.

Use the following matrix as a quick reference guide for media and application suitability. While every print application has its own requirements, the methods described cover the majority of common application categories.

Xerox Aqueous Inkjet Media	Dye (D) or Pigment (P)	GIS/CAD	Proofs	Check-Plots	Light Graphics	Poster Graphics	Photographic	Mounted Graphic	Multi-Panel Display	Signage	Retail POP	Backlit Display	Window Graphic	Outdoor Banner	Indoor Banner	Pop-Up Display	Art Reproductions
Matte Presentation Paper 90 & 120 g/m <sup>2</sup>	D	●	●	●													
Matte Presentation Paper 160 g/m <sup>2</sup>	D	●	●		●	●		●	●	●	●						
Premium Presentation Paper 120 g/m <sup>2</sup>	D/P	●	●		●	●	●	●	●	●	●						
Premium Presentation Paper 170 g/m <sup>2</sup>	D/P	●	●		●	●	●	●	●	●	●						
Outdoor Poster Paper – Blue Backed 120 g/m <sup>2</sup>	D/P					●		●	●	●	●	●					
Photo Paper Gloss 150 g/m <sup>2</sup>	D	●				●	●				●						
Photo Paper Satin 150 g/m <sup>2</sup>	D	●				●	●			●	●						
Microporous Photobase – Gloss 175 g/m <sup>2</sup>	D/P					●	●	●	●		●						
Microporous Photobase – Satin 175 g/m <sup>2</sup>	D/P					●	●	●	●	●	●					●	
Microporous Photobase – Gloss 215 g/m <sup>2</sup>	D/P					●	●	●	●		●						●
Microporous Photobase – Satin 215 g/m <sup>2</sup>	D/P					●	●	●	●	●	●						●
Microporous Photobase – Gloss 285 g/m <sup>2</sup>	D/P					●	●				●						●
Microporous Photobase – Satin 285 g/m <sup>2</sup>	D/P					●	●			●	●						●
Photo Paper – Universal – Gloss 195 g/m <sup>2</sup>	D/P					●	●	●	●		●						
Photo Paper - Universal – Satin 195 g/m <sup>2</sup>	D/P					●	●	●	●	●	●					●	
Universal Artist Canvas – 340 g/m <sup>2</sup>	D/P										●				●		●
Banner Fabric Fire Retardant – 250 g/m <sup>2</sup>	P										●				●		●

Products only available in Europe


Not recommended for Xerox 8142/8160

● Application Suitability

**NOTE:** Expected image life varies for each media type, and is subject to the ink and the environment in which it is displayed, as well as the type of over-laminate used.

Continued

<b>Xerox Aqueous Inkjet Media</b>	<b>Dye (D) or Pigment (P)</b>	<b>GIS/CAD</b>	<b>Proofs</b>	<b>Check-Plots</b>	<b>Light Graphics</b>	<b>Poster Graphics</b>	<b>Photographic</b>	<b>Mounted Graphic</b>	<b>Multi-Panel Display</b>	<b>Signage</b>	<b>Retail POP</b>	<b>Backlit Display</b>	<b>Window Graphic</b>	<b>Outdoor Banner</b>	<b>Indoor Banner</b>	<b>Pop-up Display</b>	<b>Art Reproductions</b>
Banner Polyester – 290 mic	D/P					•				•	•			•	•		
Matte White Polypropylene Banner Film – 185 mic	D/P					•		•			•			•	•		
Matte White Polypropylene Banner Film – 320 mic	D/P							•		•	•			•	•		
Banner Vinyl – 400 g/m <sup>2</sup>	D/P					•				•					•		
Outdoor Banner Vinyl – Heavyweight Matte – 550 g/m <sup>2</sup>	D/P									•				•	•		
Outdoor Weatherproof Banner- 280 mic -A Tyvek Solution	D/P					•			•					•	•		
Self-Adhesive Vinyl – 275 mic	D/P					•		•		•	•						
Backlit Inkjet Film – Front Print – 140 mic	D/P											•					
Backlit Inkjet Film – Reverse Print – 130 mic	D/P											•					
Optically Clear Inkjet Film – 120 mic	D/P	•				•							•				
Optically Clear Inkjet Film – 2 Edge Removable Strip	D/P	•				•							•				
Translucent Inkjet Film – Repositionable – 225 mic	D												•				
White Opaque Inkjet Film – Glossy – 120 mic	D	•				•				•	•				•		
Display Paper – Yellow – 95 g/m <sup>2</sup>	D/P				•					•	•						
Display Paper – Fluorescent Yellow – 95 g/m <sup>2</sup>	D/P				•					•	•						
Display Paper Fire Retardant – White – 120 g/m <sup>2</sup>	D/P				•	•				•	•						
Display Paper Fire Retardant – Fluorescent – 120 g/m <sup>2</sup>	D/P				•					•	•						
Metallic Film – Silver – 100 mic	D					•					•				•		
Metallic Film – Gold – 100 mic	D					•									•		
Polycarbonate Back Print Pop-Up Film – 275 mic	D/P								•		•					•	
White Matte Banner Film – 200 mic	D/P																
Light Stop Pop-Up Film – Front Print – 300 mic	D/P								•		•					•	
Light Stop Pop-Up Film – Front Print – 150 mic	D/P								•		•					•	

 Products only available in Europe

 Not recommended for Xerox 8142/8160

 Application Suitability

**NOTE:** Expected image life varies for each media type, and is subject to the ink and the environment in which it is displayed, as well as the type of over-laminate used.



## Printer Compatibility

Xerox Aqueous Inkjet Media	Xerox 81XX Dye	Xerox 81XX Pigment	HP 500/800	HP 750/755	HP 1050/1055	HP 2XXX Dye	HP 2XXX UV	HP 3XXX Dye	HP 3XXX UV	HP 5XXX Dye	HP 5XXX UV	Encad Pro600/700 GS	Encad Pro600/700 GS+	Encad Pro600/700 GX	Encad Pro600/700 GO	Encad Pro500/e42/e60 GA	Encad Pro500/e42/e60 GS	Encad Pro500/e42/e60 GX	Encad Pro500/e42/e60 GO	Encad 1000i Dye	Encad 1000i Pigment	Epson 7000/9000/10000	Epson 7500/9500/10000CF	Epson 7600/9600/10600	Oce 51XX Dye
Premium Coated CAD Paper - 95 g/m <sup>2</sup>	* ●	* ■	●	●	●	●	■	■	■	■	■	▲	▲	▲	▲	▲	▲	▲	▲	●	■	●	■	■	●
Matte Presentation Paper - 90 g/m <sup>2</sup>	* ●	* ■	●	●	●	●	■	●	■	●	■	●	●	●	■	●	●	●	■	●	■	●	■	■	●
Matte Presentation Paper - 120 g/m <sup>2</sup>	* ●	* ■	●	●	●	●	■	●	■	●	■	●	●	●	■	●	●	●	■	●	■	●	■	■	●
Matte Presentation Paper - 160 g/m <sup>2</sup>	●	* ●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Poster Presentation Paper - 120 g/m <sup>2</sup>	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Poster Presentation Paper - 170 g/m <sup>2</sup>	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Photo Paper - 150 g/m <sup>2</sup>	●	●	■	■	■	●	■	●	■	●	■	●	●	●	▲	●	●	●	▲	●	●	■	■	●	■
Universal Photo Paper - 175 g/m <sup>2</sup>	●	●	■	■	■	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	■	■	●	■
Universal Photo Paper - 195 g/m <sup>2</sup>	●	●	■	■	■	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Universal Photo Paper - 215 g/m <sup>2</sup>	●	●	■	■	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Universal Photo Paper - 285 g/m <sup>2</sup>	●	●	■	■	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
95 g/m <sup>2</sup> - Display Paper - 95 g/m <sup>2</sup>	●	●	●	●	●	●	●	●	●	●	●	■	■	■	■	■	■	■	■	●	●	●	■	■	■
Display Paper Fire Retardant - 120 g/m <sup>2</sup>	●	●	●	●	●	●	●	●	●	●	●	■	■	■	■	■	■	■	■	●	●	●	■	■	■
Outdoor Poster Paper – Blue Back - 120 g/m <sup>2</sup>	●	●	▲	▲	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	■
Canvas Paper - 180 g/m <sup>2</sup>	●	●	●	▲	▲	■	■	■	■	●	■	■	●	■	■	■	●	■	■	●	●	●	■	■	■
Optically Clear Film - 120 mic	●	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	●	●	●	▲	■	●	●	▲	●	▲	■	▲	▲	●
Optically Clear Film – 2 Edge Strip - 100 mic	▲	▲	■	■	■	■	▲	●	▲	●	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
White Opaque Glossy Film - 120 mic	●	●	■	■	■	■	■	●	■	●	■	●	●	●	▲	●	●	●	▲	●	●	●	●	●	●
Backlit Film – Back Print - 130 mic	●	●	▲	▲	■	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Backlit Film – Front Print - 140 mic	●	●	■	■	■	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Metallic Film - 100 mic	●	▲	■	■	■	●	▲	●	▲	●	▲	■	■	■	▲	■	■	■	▲	●	▲	●	▲	▲	■
Polycarbonate Pop-up Film – Back Print - 275 mic	●	●	▲	▲	▲	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

\* 95 g/m<sup>2</sup>, 90 g/m<sup>2</sup>, 120 g/m<sup>2</sup>, and 160 g/m<sup>2</sup> are not suitable for graphics applications on the Xerox 8142/8160

● VG ■ G ▲ X

Please contact Xerox if you need help with color profiles for your printer model and RIP software combination.

## Printer Compatibility continued

Xerox Aqueous Inkjet Media	Xerox 81XX Dye	Xerox 81XX Pigment	HP 500/800	HP 750/755	HP 1050/1055	HP 2XXX Dye	HP 2XXX UV	HP 3XXX Dye	HP 3XXX UV	HP 5XXX Dye	HP 5XXX UV	Encad Pro600/700 GS	Encad Pro600/700 GS+	Encad Pro600/700 GX	Encad Pro600/700 GO	Encad Pro500/e42/e60 GA	Encad Pro500/e42/ e60 GS	Encad Pro500/ e42/ e60 GX	Encad Pro500/ e42/ e60 GO	Encad 1000i Dye	Encad 1000i Pigment	Epson 7000/9000/ 10000	Epson 7500/ 9500/ 10000CF	Epson 7600/ 9600/ 10600	Oce 51XX Dye
Light Stop Pop-Up Film – Front Print - 300 mic	●	●	▲	▲	▲	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Light Stop Pop-Up Film – Front Print - 150 mic	●	●	▲	▲	▲	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
White Matte Banner Film - 200 mic	●	●	■	■	■	●	●	●	●	●	●	●	●	●	▲	●	●	●	▲	●	●	●	●	●	●
Banner Polyester - 290 mic	●	●	●	■	●	●	●	●	●	●	●	●	●	●	■	■	●	●	■	●	●	●	●	●	■
Matte Polypropylene Banner - 185 mic	●	●	■	■	●	●	●	●	●	●	●	●	●	●	●	■	●	●	■	●	●	●	●	●	●
Matte Polypropylene Banner - 320 mic	●	●	■	■	●	●	●	●	●	●	●	●	●	●	●	■	●	●	■	●	●	●	●	●	●
Banner Vinyl - 400 g/m²	●	●	▲	▲	●	●	●	●	●	●	●	■	■	■	■	■	■	■	■	●	●	■	■	■	■
Banner Vinyl – Outdoor - 550 g/m²	●	●	■	▲	■	●	■	●	■	●	●	■	■	■	■	■	■	■	■	●	●	●	■	■	■
Outdoor Weatherproof Banner (A Tyvek® Solution) - 280 mic	●	●	●	■	●	●	●	●	●	●	●	●	●	●	■	■	●	●	■	●	●	●	●	●	●
Banner Fabric Fire Retardant - 250 g/m²	●	●	■	▲	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Universal Matte Artist Canvas - 340 g/m²	●	●	▲	▲	▲	■	■	■	■	●	■	■	●	■	■	■	●	■	■	●	●	●	■	●	●
Translucent Repositionable Film - 225 mic	●	▲	▲	▲	▲	●	▲	●	▲	●	▲	●	●	●	▲	■	●	●	▲	●	▲	■	▲	▲	●
Self Adhesive Vinyl - 275 mic	●	●	■	■	■	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

\* 95 g/m<sup>2</sup>, 90 g/m<sup>2</sup>, 120 g/m<sup>2</sup>, and 160 g/m<sup>2</sup> are not suitable for graphics applications on the Xerox 8142/8160

● VG ■ G ▲ X

Please contact Xerox if you need help with color profiles for your printer model and RIP software combination.

# Media Product Data Sheets

## Media Item Details

### Xerox Presentation Papers

Description	Width		Length		Product Code
Premium Coated Inkjet Paper, 95 g/m <sup>2</sup>	914 mm	36"	46 m	150 ft	003R06709
Premium Coated Inkjet Paper, 95 g/m <sup>2</sup>	841 mm	33"	46 m	150 ft	003R06710
Premium Coated Inkjet Paper, 95 g/m <sup>2</sup>	625 mm	25"	46 m	150 ft	003R06712
Premium Coated Inkjet Paper, 95 g/m <sup>2</sup>	610 mm	24"	46 m	150 ft	003R06711
Matte Presentation Paper, 90 g/m <sup>2</sup>	1524 mm	60"	46 m	150 ft	023R02074
Matte Presentation Paper, 90 g/m <sup>2</sup>	1270 mm	50"	46 m	150 ft	023R02075
Matte Presentation Paper, 90 g/m <sup>2</sup>	1067 mm	42"	46 m	150 ft	023R02076
Matte Presentation Paper, 90 g/m <sup>2</sup>	914 mm	36"	46 m	150 ft	023R02077
Matte Presentation Paper, 90 g/m <sup>2</sup>	610 mm	24"	46 m	150 ft	023R02078
Matte Presentation Paper, 120 g/m <sup>2</sup>	1524 mm	60"	46 m	150 ft	023R02084
Matte Presentation Paper, 120 g/m <sup>2</sup>	1270 mm	50"	46 m	150 ft	023R02085
Matte Presentation Paper, 120 g/m <sup>2</sup>	1067 mm	42"	46 m	150 ft	023R02086
Matte Presentation Paper, 120 g/m <sup>2</sup>	914 mm	36"	46 m	150 ft	023R02087
Matte Presentation Paper, 120 g/m <sup>2</sup>	610 mm	24"	46 m	150 ft	023R02088
Matte Presentation Paper, 160 g/m <sup>2</sup>	1524 mm	60"	31 m	100 ft	023R02089
Matte Presentation Paper, 160 g/m <sup>2</sup>	1270 mm	50"	31 m	100 ft	023R02090
Matte Presentation Paper, 160 g/m <sup>2</sup>	1067 mm	42"	31 m	100 ft	023R02091
Matte Presentation Paper, 160 g/m <sup>2</sup>	914 mm	36"	31 m	100 ft	023R02092
Matte Presentation Paper, 160 g/m <sup>2</sup>	610 mm	24"	31 m	100 ft	023R02093

## Xerox Presentation Papers continued

Description	Width		Length		Product Code
Premium Presentation Paper, 120 g/m <sup>2</sup>	1524 mm	60"	46 m	150 ft	023R02173
Premium Presentation Paper, 120 g/m <sup>2</sup>	1067 mm	42"	46 m	150 ft	023R02174
Premium Presentation Paper, 120 g/m <sup>2</sup>	914 mm	36"	46 m	150 ft	023R02175
Premium Presentation Paper, 170 g/m <sup>2</sup>	1524 mm	60"	31 m	100 ft	023R02176
Premium Presentation Paper, 170 g/m <sup>2</sup>	1067 mm	42"	31 m	100 ft	023R02177
Premium Presentation Paper, 170 g/m <sup>2</sup>	914 mm	36"	31 m	100 ft	023R02178
Premium Presentation Paper, 170 g/m <sup>2</sup>	610 mm	24"	31 m	100 ft	023R02179

## Xerox Photo Papers

Description	Width		Length		Product Code
Photo Paper Gloss, 150 g/m <sup>2</sup>	1524 mm	60"	31 m	100 ft	023R02094
Photo Paper Gloss, 150 g/m <sup>2</sup>	1067 mm	42"	31 m	100 ft	023R02095
Photo Paper Gloss, 150 g/m <sup>2</sup>	914 mm	36"	31 m	100 ft	023R02096
Photo Paper Satin, 150 g/m <sup>2</sup>	1067 mm	42"	31 m	100 ft	023R02099
Photo Paper Satin, 150 g/m <sup>2</sup>	914 mm	36"	31 m	100 ft	023R02100
Universal Photo Paper Gloss, 175 g/m <sup>2</sup>	1270 mm	50"	30 m	98 ft	023R02102
Universal Photo Paper Gloss, 175 g/m <sup>2</sup>	1067 mm	42"	30 m	98 ft	023R02103
Universal Photo Paper Gloss, 175 g/m <sup>2</sup>	914 mm	36"	30 m	98 ft	023R02104
Universal Photo Paper Gloss, 175 g/m <sup>2</sup>	610 mm	24"	30 m	98 ft	023R02105
Universal Photo Paper Satin, 175 g/m <sup>2</sup>	1270 mm	50"	30 m	98 ft	023R02106
Universal Photo Paper Satin, 175 g/m <sup>2</sup>	1067 mm	42"	30 m	98 ft	023R02107
Universal Photo Paper Satin, 175 g/m <sup>2</sup>	914 mm	36"	30 m	98 ft	023R02108
Universal Photo Paper Satin, 175 g/m <sup>2</sup>	610 mm	24"	30 m	98 ft	023R02109
Universal Photo Paper Gloss, 195 g/m <sup>2</sup>	1524 mm	60"	31 m	100 ft	023R02110
Universal Photo Paper Gloss, 195 g/m <sup>2</sup>	1067 mm	42"	31 m	100 ft	023R02111
Universal Photo Paper Gloss, 195 g/m <sup>2</sup>	914 mm	36"	31 m	100 ft	023R02112
Universal Photo Paper Gloss, 195 g/m <sup>2</sup>	610 mm	24"	31 m	100 ft	023R02113

## Xerox Photo Papers continued

Description	Width		Length		Product Code
Universal Photo Paper Satin, 195 g/m <sup>2</sup>	1524 mm	60"	31 m	100 ft	023R02114
Universal Photo Paper Satin, 195 g/m <sup>2</sup>	1067 mm	42"	31 m	100 ft	023R02115
Universal Photo Paper Satin, 195 g/m <sup>2</sup>	914 mm	36"	31 m	100 ft	023R02116
Universal Photo Paper Satin, 195 g/m <sup>2</sup>	610 mm	24"	31 m	100 ft	023R02117
Universal Photo Paper Gloss, 215 g/m <sup>2</sup>	1270 mm	50"	20 m	66 ft	023R02118
Universal Photo Paper Gloss, 215 g/m <sup>2</sup>	1067 mm	42"	20 m	66 ft	023R02119
Universal Photo Paper Gloss, 215 g/m <sup>2</sup>	914 mm	36"	20 m	66 ft	023R02120
Universal Photo Paper Gloss, 215 g/m <sup>2</sup>	610 mm	24"	20 m	66 ft	023R02121
Universal Photo Paper Satin, 215 g/m <sup>2</sup>	1270 mm	50"	20 m	66 ft	023R02122
Universal Photo Paper Satin, 215 g/m <sup>2</sup>	1067 mm	42"	20 m	66 ft	023R02123
Universal Photo Paper Satin, 215 g/m <sup>2</sup>	914 mm	36"	20 m	66 ft	023R02124
Universal Photo Paper Satin, 215 g/m <sup>2</sup>	610 mm	24"	20 m	66 ft	023R02125
Universal Photo Paper Gloss, 285 g/m <sup>2</sup>	1524 mm	60"	15 m	49 ft	023R02126
Universal Photo Paper Gloss, 285 g/m <sup>2</sup>	1067 mm	42"	15 m	49 ft	023R02127
Universal Photo Paper Gloss, 285 g/m <sup>2</sup>	914 mm	36"	15 m	49 ft	023R02128
Universal Photo Paper Gloss, 285 g/m <sup>2</sup>	610 mm	24"	15 m	49 ft	023R02129
Universal Photo Paper Satin, 285 g/m <sup>2</sup>	1524 mm	60"	15 m	49 ft	023R02130
Universal Photo Paper Satin, 285 g/m <sup>2</sup>	1067 mm	42"	15 m	49 ft	023R02131
Universal Photo Paper Satin, 285 g/m <sup>2</sup>	914 mm	36"	15 m	49 ft	023R02132
Universal Photo Paper Satin, 285 g/m <sup>2</sup>	610 mm	24"	15 m	49 ft	023R02133

## Xerox Specialist Application Papers

Description	Width		Length		Product Code
Display Paper Yellow, 95 g/m <sup>2</sup>	1524 mm	60"	46 m	150 ft	023R02134
Display Paper Yellow, 95 g/m <sup>2</sup>	1067 mm	42"	46 m	150 ft	023R02135
Display Paper Fluorescent Yellow, 95 g/m <sup>2</sup>	1524 mm	60"	46 m	150 ft	023R02136
Display Paper Fluorescent Yellow, 95 g/m <sup>2</sup>	1067 mm	42"	46 m	150 ft	023R02137
Display Paper Fire Retardant White, 120 g/m <sup>2</sup>	1524 mm	60"	31 m	100 ft	023R02138
Display Paper Fire Retardant White, 120 g/m <sup>2</sup>	1067 mm	42"	31 m	100 ft	023R02139
Display Paper Fire Retardant Yellow Fluorescent, 120 g/m <sup>2</sup>	1524 mm	60"	31 m	100 ft	023R02140
Display Paper Fire Retardant Yellow Fluorescent, 120 g/m <sup>2</sup>	1067 mm	42"	31 m	100 ft	023R02141
Outdoor Poster Paper – Blue Back, 120 g/m <sup>2</sup>	1524 mm	60"	31 m	100 ft	023R02142
Outdoor Poster Paper – Blue Back, 120 g/m <sup>2</sup>	1067 mm	42"	31 m	100 ft	023R02143
Outdoor Poster Paper – Blue Back, 120 g/m <sup>2</sup>	914 mm	36"	31 m	100 ft	023R02144
Outdoor Poster Paper – Blue Back, 120 g/m <sup>2</sup>	610 mm	24"	31 m	100 ft	023R02145
Canvas Paper, 180 g/m <sup>2</sup>	914 mm	36"	12 m	39 ft	023R02148

## Xerox Film

Description	Width		Length		Product Code
Optically Clear Film, 120 mic	1270 mm	50"	20 m	66 ft	023R01531
Optically Clear Film, 120 mic	914 mm	36"	20 m	66 ft	023R01532
Optically Clear Film, 120 mic	610 mm	24"	20 m	66 ft	023R01582
Optically Clear Film – 2 Edge Strip, 100 mic	1270 mm	50"	20 m	66 ft	023R01637
Optically Clear Film – 2 Edge Strip, 100 mic	1067 mm	42"	20 m	66 ft	023R01636
Optically Clear Film – 2 Edge Strip, 100 mic	914 mm	36"	20 m	66 ft	023R01635
Optically Clear Film – 2 Edge Strip, 100 mic	610 mm	24"	20 m	66 ft	023R01634
White Opaque Glossy Film, 120 mic	1270 mm	50"	20 m	66 ft	023R01491
White Opaque Glossy Film, 120 mic	914 mm	36"	20 m	66 ft	023R01493
White Opaque Glossy Film, 120 mic	610 mm	24"	20 m	66 ft	023R01494
Backlit Film – Back Print, 130 mic	1524 mm	60"	20 m	66 ft	023R01496
Backlit Film – Back Print, 130 mic	1372 mm	54"	20 m	66 ft	023R01497
Backlit Film – Back Print, 130 mic	1270 mm	50"	20 m	66 ft	023R01498
Backlit Film – Back Print, 130 mic	1118mm	44"	20 m	66 ft	023R01499
Backlit Film – Back Print, 130 mic	1067 mm	42"	20 m	66 ft	023R01500
Backlit Film – Back Print, 130 mic	914 mm	36"	20 m	66 ft	023R01501
Backlit Film – Front Print, 140 mic	1524 mm	60"	30 m	98 ft	023R02150
Backlit Film – Front Print, 140 mic	1067 mm	42"	30 m	98 ft	023R02151
Backlit Film – Front Print, 140 mic	914 mm	36"	30 m	98 ft	023R02152
Metallic Film – Silver, 100 mic	1270 mm	50"	20 m	66 ft	023R01598
Metallic Film – Silver, 100 mic	914 mm	36"	20 m	66 ft	023R01597
Metallic Film – Gold, 100 mic	1270 mm	50"	20 m	66 ft	023R01596
Metallic Film – Gold, 100 mic	914 mm	36"	20 m	66 ft	023R01595
Polycarbonate Pop-Up Film – Back Print, 275 mic	900 mm	35"	40 m	131 ft	023R01606
Polycarbonate Pop-Up Film – Back Print, 275 mic	900 mm	35"	20 m	66 ft	023R01474

## Xerox Film continued

Description	Width		Length		Product Code
White Polyester Self-adhesive Light Stop Backer, 275 mic	880 mm	35"	50 m	164 ft	023R01478
White Polyester Self-adhesive Light Stop Backer, 275 mic	880 mm	35"	20 m	66 ft	023R01477
Light Stop Pop-Up Film – Front Print, 300 mic	914 mm	36"	40 m	131 ft	023R01476
Light Stop Pop-Up Film – Front Print, 300 mic	914 mm	36"	20 m	66 ft	023R01475
Light Stop Pop-Up Film – Front Print, 150 mic	914 mm	36"	30 m	98 ft	023R01641
Light Stop Pop-Up Film – Front Print, 150 mic	1270 mm	50"	30 m	98 ft	023R01642
White Matte Banner Film, 200 mic	1524 mm	60"	20 m	66 ft	023R01604
White Matte Banner Film, 200 mic	1372 mm	54"	20 m	66 ft	023R01603
White Matte Banner Film, 200 mic	1270 mm	50"	20 m	66 ft	023R01473
White Matte Banner Film, 200 mic	1067 mm	42"	20 m	66 ft	023R01602
White Matte Banner Film, 200 mic	914 mm	36"	20 m	66 ft	023R01601



## Xerox Banner Media

Description	Width		Length		Product Code
Outdoor Weatherproof Banner (A Tyvek® Solution), 280 mic	1372 mm	54"	20 m	66 ft	023R01441
Outdoor Weatherproof Banner (A Tyvek® Solution), 280 mic	1270 mm	50"	20 m	66 ft	023R01524
Outdoor Weatherproof Banner (A Tyvek® Solution), 280 mic	1067 mm	42"	20 m	66 ft	023R01523
Outdoor Weatherproof Banner (A Tyvek® Solution), 280 mic	914 mm	36"	20 m	66 ft	023R01442
Universal Matte Artist Canvas	1270 mm	50"	12 m	40 ft	023R01503
Universal Matte Artist Canvas, 340 g/m <sup>2</sup>	1118 mm	44"	12 m	40 ft	023R01504
Universal Matte Artist Canvas, 340 g/m <sup>2</sup>	1067 mm	42"	12 m	40 ft	023R01505
Universal Matte Artist Canvas, 340 g/m <sup>2</sup>	914 mm	36"	12 m	40 ft	023R01506
Banner Fabric Fire Retardant, 250 g/m <sup>2</sup>	1524 mm	60"	20 m	66 ft	023R02162
Banner Fabric Fire Retardant, 250 g/m <sup>2</sup>	1067 mm	42"	20 m	66 ft	023R02163
Banner Fabric Fire Retardant, 250 g/m <sup>2</sup>	914 mm	36"	20 m	66 ft	023R02164
Banner Polyester, 290 mic	1524 mm	60"	15 m	50 ft	023R01583
Banner Polyester, 290 mic	1372 mm	54"	15 m	50 ft	023R01584
Banner Polyester, 290 mic	1270 mm	50"	15 m	50 ft	023R01585
Banner Polyester, 290 mic	1118 mm	44"	15 m	50 ft	023R01586
Banner Polyester, 290 mic	1067 mm	42"	15 m	50 ft	023R01587
Banner Polyester, 290 mic	914 mm	36"	15 m	50 ft	023R01588
Matte Polypropylene Banner, 185 mic	1524 mm	60"	30 m	98 ft	023R02166
Matte Polypropylene Banner, 185 mic	1067 mm	42"	30 m	98 ft	023R02167
Matte Polypropylene Banner, 185 mic	914 mm	36"	30 m	98 ft	023R02168
Matte Polypropylene Banner, 320 mic	1524 mm	60"	15 m	50 ft	023R02169
Matte Polypropylene Banner, 320 mic	1067 mm	42"	15 m	50 ft	023R02170
Matte Polypropylene Banner, 320 mic	914 mm	36"	15 m	50 ft	023R02171
Banner Vinyl, 400 g/m <sup>2</sup>	1524 mm	60"	15 m	50 ft	023R02157
Banner Vinyl, 400 g/m <sup>2</sup>	1270 mm	50"	15 m	50 ft	023R02158
Banner Vinyl, 400 g/m <sup>2</sup>	1067 mm	42"	15 m	50 ft	023R02159
Banner Vinyl, 400 g/m <sup>2</sup>	914 mm	36"	15 m	50 ft	023R02160

## Xerox Banner Media continued

Description	Width		Length		Product Code
Banner Vinyl – Outdoor, 550 g/m <sup>2</sup>	1524 mm	60"	15 m	50 ft	023R01589
Banner Vinyl – Outdoor, 550 g/m	1372 mm	54"	15 m	50 ft	023R01590
Banner Vinyl – Outdoor, 550 g/m	1270 mm	50"	15 m	50 ft	023R01591
Banner Vinyl – Outdoor, 550 g/m	1067 mm	42"	15 m	50 ft	023R01593
Banner Vinyl – Outdoor, 550 g/m	914 mm	36"	15 m	50 ft	023R01594

## Xerox Self-Adhesive Media

Description	Width		Length		Product Code
Translucent Repositionable Film, 225 mic	1270 mm	50"	20 m	66 ft	023R01517
Translucent Repositionable Film, 225 mic	914 mm	36"	20 m	66 ft	023R01518
Optically Clear Inkjet Film – Self Adhesive, 140 mic	914 mm	36"	20 m	66 ft	023R01495
Self Adhesive Vinyl, 275 mic	1524 mm	60"	20 m	66 ft	023R02153
Self Adhesive Vinyl, 275 mic	1067 mm	42"	20 m	66 ft	023R02154
Self Adhesive Vinyl, 275 mic	914 mm	36"	20 m	66 ft	023R02155
Self Adhesive Vinyl, 275 mic	610 mm	24"	20 m	66 ft	023R02156

## Xerox Premium Coated CAD Paper 95 g/m<sup>2</sup>\*

### Product Description

A lightly coated paper designed for high-resolution, sharp line drawings and limited areas of pastel shading in CAD/engineering drawing applications. Meets the line width specifications for CAD Engineering drawing applications. Not recommended for printing graphic images.

Works well in all commonly used CAD plotters, with dye or pigment inks. Available in 24 inch (610 mm), 625 mm, 841 mm (A0) and 36 inch (914 mm) widths.

### Applications

Presentation standard line art, color line drawings, CAD engineering drawings, solid modeling images, basic charts and similar.

### Physical Properties

Product Code	Width	Length	m2
003R06709	914 mm	46 m	42
003R06710	841 mm	46 m	38
003R06712	625 mm	46 m	29
003R06711	610 mm	46 m	28
003R06560	914 mm	91 m	83
003R06561	841 mm	91 m	77
003R06562	625 mm	91 m	57
003R06563	610 mm	91 m	56

Base Weight	95 g/m <sup>2</sup>
Caliper (microns)	130
Whiteness (CIE)	155
Opacity	93.5%

### Compatibility

Printer	Ink Type
HP 5XX/6XX/7XX/8XX/1XXX	Dye (& Black Pigment)
HP 5XXX/55XX	Dye/Pigment
Epson Stylus Pro 7600/9600/10600	Dye/Ultrachrome®

### Critical Operating Instructions

- For best results store and use in temperatures of 64-77°F (18-25°C) and within a relative humidity of 40-60%

\*Currently available in Europe only.

## Xerox Matte Presentation Paper 90 g/m<sup>2</sup>

### Product Description

An economical, general-purpose, matte-coated presentation paper available in three weights. The two lighter weight offerings (90 g/m<sup>2</sup> and 120 g/m<sup>2</sup>) are designed for lower ink density printing with all inkjet plotters commonly used in these environments. This paper, in either 90 g/m<sup>2</sup> or 120 g/m<sup>2</sup> base weight, gives sharp line definition (meeting the GIS/CAD line width specifications) and can accept lower-density color fills giving uniform shades with instant drying. These lightweight matte presentation papers are **not** suitable for high-density graphic imaging.

The 90 g/m<sup>2</sup> base weight is intended for everyday output and the 120 g/m<sup>2</sup> variant gives extra stiffness and thickness for high quality presentation drawings. Both are treated also on the reverse to prevent curl. The 120 g/m<sup>2</sup> paper can be used as a low-cost poster proofing paper.

### Applications

High quality CAD line drawings with low and medium density solid color infill, charts, mapping, corporate or organization charts, simple signage (i.e. door signs, changeable short-term menu/price signs, schedules and time tables, survey/mapping/graphic “proofs” for review prior to final graphic production on higher capacity media.

### Physical Properties

Product Code	Width		Length		m <sup>2</sup>
023R02074	1524 mm	60"	46 m	150 ft	70
023R02075	1270 mm	50"	46 m	150 ft	58
023R02076	1067 mm	42"	46 m	150 ft	49
023R02077	914 mm	36"	46 m	150 ft	42
023R02078	610 mm	24"	46 m	150 ft	28

Base Weight	90 g/m <sup>2</sup>
Caliper (microns)	115
Whiteness (CIE)	132
Opacity	95%

### Compatibility

Printer	Ink Type
HP 1XXX	Dye (& Black Pigmented)
HP 2XXX/3XXX/5XXX	Dye/Pigment
Epson Stylus Pro 7000/7500/9000/9500	Dye/Pigment
Epson Stylus Pro 7600/9600/10600	Dye/Ultrachrome®
Encad Novajet	GA/GS/GS+/GX/GO

### Critical Operating Instructions

- For best results store and use within temperatures of 64-77°F (18-25°C) and relative humidity of 40-60%.
- Attempting full-density graphics prints will overload these lightweight papers with ink. This may cause cockle and distortion of the paper which can result in head strikes and damage to the inkjet writing heads.
- Allow prints to dry before laminating.
- Lamination is recommended for prints requiring satin, matte, high gloss or other finishes and/or prints requiring UV protection or greater general durability if they may be subject to moisture or handling. Best used with thermal laminates on both sides of a print.

## Xerox Matte Presentation Paper 120 g/m<sup>2</sup>

### Product Description

An economical, general-purpose, matte-coated presentation paper available in three weights. The two lighter weight offerings (90 g/m<sup>2</sup> and 120 g/m<sup>2</sup>) are designed for lower ink density printing with all inkjet plotters commonly used in these environments. This paper, in either 90 g/m<sup>2</sup> or 120 g/m<sup>2</sup> base weight, gives sharp line definition (meeting the GIS/CAD line width specifications) and can accept lower-density color fills giving uniform shades with instant drying. These lightweight matte presentation papers are **not** suitable for high-density graphic imaging.

The 90g/m<sup>2</sup> base weight is intended for everyday output and the 120 g/m<sup>2</sup> variant gives extra stiffness and thickness for high quality presentation drawings. Both are treated also on the reverse to prevent curl. The 120 g/m<sup>2</sup> paper can be used as a low-cost poster proofing paper.

### Applications

High quality CAD line drawings with low and medium density solid color infill, charts, mapping, corporate or organization charts, simple signage (i.e. door signs, changeable short-term menu/price signs, schedules and timetables, survey/mapping/graphic “proofs” for review prior to final graphic production on higher capacity media.

### Physical Properties

Product Code	Width		Length		m <sup>2</sup>
023R02084	1524 mm	60"	46 m	150 ft	70
023R02085	1270 mm	50"	46 m	150 ft	58
023R02086	1067 mm	42"	46 m	150 ft	49
023R02087	914 mm	36"	46 m	150 ft	42
023R02088	610 mm	24"	46 m	150 ft	28

Base Weight	120 g/m <sup>2</sup>
Caliper (microns)	160
Whiteness (CIE)	132
Opacity	96%

### Compatibility

Printer	Ink Type
HP 1XXX	Dye (& Black Pigmented)
HP 2XXX/3XXX/5XXX	Dye/Pigment
Epson Stylus Pro 7000/7500/9000/9500	Dye/Pigment
Epson Stylus Pro 7600/9600/10600	Dye/Ultrachrome®
Encad Novajet	GA/GS/GS+/GX/GO

### Critical Operating Instructions

- For best results store and use within temperatures of 64-77°F (18-25°C) and relative humidity of 40-60%.
- Attempting full-density graphics prints will overload these lightweight papers with ink. This may cause cockle and distortion of the paper which can result in head strikes and damage to the inkjet writing heads.
- Allow prints to dry before laminating.
- Lamination is recommended for prints requiring satin, matte, high gloss or other finishes and/or prints requiring UV protection or greater general durability if they may be subject to moisture or handling. Best used with thermal laminates on both sides of a print.

## Xerox Matte Presentation Paper 160 g/m<sup>2</sup>

### Product Description

High-white, heavyweight, coated presentation paper designed for CAD/GIS and low coverage color applications.

Can be printed to give good image density and gamut with lower ink limits and therefore excellent ink economy. The heavyweight base gives this paper good stiffness and bulk. Dimensional stability makes this paper suitable for multi-panel display. This paper is not designed for heavy ink loading and may cockle if ink limits are exceeded.

Dries quickly and is suitable for both dye and pigment inks.

### Applications

General-purpose CAD/GIS, low coverage posters and presentation graphics.

### Physical Properties

Product Code	Width		Length		m <sup>2</sup>
023R02089	1524 mm	60"	31 m	100 ft	47
023R02090	1270 mm	50"	31 m	100 ft	39
023R02091	1067 mm	42"	31 m	100 ft	33
023R02092	914 mm	36"	31 m	100 ft	28
023R02093	610 mm	24"	31 m	100 ft	19

Base Weight	160 g/m <sup>2</sup>
Caliper (microns)	198
Whiteness (CIE)	132
Opacity	96%

### Compatibility

Printer	Ink Type
Xerox 8142/8160	Dye
HP 2XXX/3XXX/5XXX	Dye/Pigment
Epson Stylus Pro 7000/9000/7500/9500/10000	Dye/Pigment
Epson Stylus Pro 7600/9600/10600	Dye/Ultrachrome®
Encad Novajet	GA/GS/GS+/GX/G0

### Critical Operating Instructions

- Lower ink limits should achieve good color density and gamut and are required for non-CAD/GIS applications.
- Allow time for ink to dry before laminating. Can use thermal or pressure laminates.
- Lamination is recommended for prints requiring satin, matte, high gloss or other finishes and/or prints requiring UV protection or greater general durability if they may be subject to moisture or handling. This media is suitable for pressure (cold) or thermal (hot-melt) laminates. Protect from moisture and/or abrasion with at least a 75 micron laminate on front side or both sides. Encapsulate with a 1/4 inch (6 mm) sealed edge for outdoor use.

## Xerox Premium Presentation Paper 120 g/m<sup>2</sup>

### Product Description

Poster presentation paper is designed for producing bright colors and photo-quality images in up to 600 dpi resolution, with an ultra-smooth surface finish. It not only offers a high-grade matte presentation paper, but should also be considered as an alternative to matte or low-lustre photo papers.

Both 120 g/m<sup>2</sup> and 170 g/m<sup>2</sup> variants are suitable for high-density images and general-purpose graphics with both dye and pigment inks. The heavier weight version offers greater stiffness and bulk to suit preference or particular application needs.

### Applications

General purpose and photo-realistic presentation graphics, retail and point-of-purchase display, trade shows and exhibition graphics, pop-up displays and mounted display panels. Provides a smooth but low-lustre finish for low-glare display without lamination, or can be over-laminated to extend print life.

### Physical Properties

Product Code	Width		Length		m <sup>2</sup>
023R02173	1524 mm	60"	46 m	98 ft	70
023R02174	1067 mm	42"	46 m	98 ft	49
023R02175	914 mm	36"	46 m	98 ft	42

Base Weight	120 g/m <sup>2</sup>
Caliper (microns)	155
Whiteness (CIE)	143
Opacity	95%

### Compatibility

Printer	Ink Type
Xerox 8142/8160	Dye/Pigment
HP 2XXX/3XXX/5XXX	Dye/Pigment
Epson Stylus Pro 7000/9000/7500/9500/10000	Dye/Pigment
Epson Stylus Pro 7600/9600/10600	Dye/Ultrachrome®
Encad Novajet	GA/GS/GS+/GX/GO
Encad 1000i	Dye/Pigment

### Critical Operating Instructions

- For best results store and use within temperature of 50-86°F (10-30°C) and 40-65% relative humidity.
- Store the product in its original box and bag.
- Allow time for ink to dry before laminating. Can use thermal or pressure laminates.
- Lamination is recommended for prints requiring satin, matte, high gloss or other finishes and/or prints requiring UV protection or greater general durability if they may be subject to moisture or handling. This media is suitable for pressure (cold) or thermal (hot-melt) laminates. Protect from moisture and/or abrasion with at least a 75 micron laminate on front side or both sides. Encapsulate with a 1/4 inch (6 mm) sealed edge for outdoor use.

## Xerox Premium Presentation Paper 170 g/m<sup>2</sup>

### Product Description

Poster presentation paper is designed for producing bright colors and photo-quality images in up to 600 dpi resolution, with an ultra-smooth surface finish. It not only offers a high-grade matte presentation paper, but should also be considered as an alternative to matte or low-lustre photo papers.

Both 120 g/m<sup>2</sup> and 170 g/m<sup>2</sup> variants are suitable for high-density images and general-purpose graphics with both dye and pigment inks. The heavier weight version offers greater stiffness and bulk to suit preference or particular application needs.

### Applications

General purpose and photo-realistic presentation graphics, retail and point-of-purchase display, trade shows and exhibition graphics, pop-up displays and mounted display panels. Provides a smooth but low-lustre finish for low-glare display without lamination, or can be over-laminated to extend print life.

### Physical Properties

Product Code	Width		Length		m <sup>2</sup>
023R02176	1524 mm	60"	31 m	98 ft	47
023R02177	1067 mm	42"	31 m	98 ft	33
023R02178	914 mm	36"	31 m	98 ft	28
023R02179	610 mm	24"	31 m	98 ft	19

Base Weight	170 g/m <sup>2</sup>
Caliper (microns)	185
Whiteness (CIE)	115
Opacity	97%

### Compatibility

Printer	Ink Type
Xerox 8142/8160	Dye/Pigment
HP 2XXX/3XXX/5XXX	Dye/Pigment
Epson Stylus Pro 7000/9000/7500/9500/10000	Dye/Pigment
Epson Stylus Pro 7600/9600/10600	Dye/Ultrachrome®
Encad Novajet	GA/GS/GS+/GX/GO
Encad 1000i	Dye/Pigment

### Critical Operating Instructions

- For best results store and use within temperature of 50-86°F (10-30°C) and 40-65% relative humidity.
- Store the product in its original box and bag.
- Allow time for ink to dry before laminating. Can use thermal or pressure laminates.
- Lamination is recommended for prints requiring satin, matte, high gloss or other finishes and/or prints requiring UV protection or greater general durability if they may be subject to moisture or handling. This media is suitable for pressure (cold) or thermal (hot-melt) laminates. Protect from moisture and/or abrasion with at least a 75 micron laminate on front side or both sides. Encapsulate with a 1/4 inch (6 mm) sealed edge for outdoor use.



## Xerox Photo Paper 150 g/m<sup>2</sup>

### Product Description

Economical, entry-level, photo grade paper, designed for dye ink printers. Bright white surface assists with production of bright colors to give high quality photographic images up to 600 dpi resolution. Offered in either satin or gloss surface finish.

### Applications

Photographic quality presentation graphics, retail and point-of-purchase display, trade shows and exhibition graphics and posters. When used with dye ink this paper offers excellent print quality at a low cost for short to medium-term applications.

### Physical Properties

#### 150 g/m<sup>2</sup> Xerox Photo Paper Gloss

Product Code	Width		Length		m <sup>2</sup>
023R02094	1524 mm	60"	31 m	100 ft	47
023R02095	1067 mm	42"	31 m	100 ft	33
023R02096	914 mm	36"	31 m	100 ft	28

Base Weight	150 g/m <sup>2</sup>
Caliper (microns)	138
Whiteness (CIE)	155
Opacity	93%
Gloss	90%

#### 150 g/m<sup>2</sup> Xerox Photo Paper Satin

Product Code	Width		Length		m <sup>2</sup>
023R02098	1524 mm	60"	31 m	100 ft	47
023R02099	1067 mm	42"	31 m	100 ft	33
023R02100	914 mm	36"	31 m	100 ft	28

Base Weight	150 g/m <sup>2</sup>
Caliper (microns)	138
Whiteness (CIE)	155
Opacity	93%
Gloss	50%

## Compatibility

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Printer	Ink Type
Xerox 8142/8160	Dye
HP 7XX/8XX/1XXX	Dye (& Pigment Black)
HP 2XXX/3XXX/5XXX	Dye/Pigment
Epson Stylus Pro 7000/9000/7500/9500/10000	Dye/Pigment
Epson Stylus Pro 7600/9600/10600	Dye/Ultrachrome®
Encad Novajet	GA/GS/GS+/GX/GO
Encad 1000i	Dye
Oce 5100c/5120/5200	Dye

## Critical Operating Instructions

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- For best results store the product in its original box and bag and use within temperature of 50-86°F (10-30°C) and 30-65% relative humidity.
- Select Photo Black ink if using Epson Ultrachrome®.
- Allow time for ink to dry before laminating.
- Can use thermal or pressure laminates.
- Lamination is recommended for prints requiring satin, matte, high gloss or other finishes and/or prints requiring UV protection or greater general durability if they may be subject to moisture or handling. This media is suitable for pressure (cold) or thermal (hot-melt) laminates. Protect from moisture and/or abrasion with at least a 75 micron laminate on front side or both sides. Encapsulate with a 1/4 inch (6 mm) edge for outdoor use.

## Xerox Universal Photo Paper 175 g/m<sup>2</sup>

### Product Description

A cost-effective, high quality opaque, white, photo base paper with a PE film coating on both sides and a microporous coating for instant drying with either dye or pigment inks. Designed for high ink capacity for wide-gamut images printing at up to 600 dpi resolution.

With a base weight at the lighter end of the photo-paper scale, this gives a cost-effective basis for high-quality, durable, pigment-printed photographic reproductions.

Available in both satin and gloss surface finishes.

### Applications

Photographic quality presentation graphics, retail and point-of-purchase display, trade shows and exhibition graphics, posters and general purpose graphics.

### Physical Properties

#### 175 g/m<sup>2</sup> Xerox Universal Photo Paper Gloss

Product Code	Width		Length		m <sup>2</sup>
023R02102	1270 mm	50"	30 m	98 ft	38
023R02103	1067 mm	42"	30 m	98 ft	32
023R02104	914 mm	36"	30 m	98 ft	27
023R02105	610 mm	24"	30 m	98 ft	18

Base Weight	175 g/m <sup>2</sup>
Caliper (microns)	165
Whiteness (CIE)	135
Opacity	93%
Gloss	80%

#### 175 g/m<sup>2</sup> Xerox Universal Photo Paper Satin

Product Code	Width		Length		m <sup>2</sup>
023R02106	1270 mm	50"	30 m	98 ft	38
023R02107	1067 mm	42"	30 m	98 ft	32
023R02108	914 mm	36"	30 m	98 ft	27
023R02109	610 mm	24"	30 m	98 ft	18

Base Weight	175 g/m <sup>2</sup>
Caliper (microns)	165
Whiteness (CIE)	135
Opacity	93%
Gloss	65%

## Compatibility

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Printer	Ink Type
Xerox 8142/8160	Dye/Pigment
HP 7XX/8XX/1XXX	Dye (& Pigment Black)
HP 2XXX/3XXX/5XXX	Dye/Pigment
Epson Stylus Pro 7000/9000/7500/9500/10000	Dye/Pigment
Epson Stylus Pro 7600/9600/10600	Dye/ULtrachrome®
Encad Novajet	GA/GS/GS+/GX/GO
Encad 1000i	Dye/Pigment

## Critical Operating Instructions

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- For best results store the product in its original box and bag and use within temperature of 50-86°F (10-30°C) and 30-65% relative humidity.
- Select Photo Black ink if using Epson ULtrachrome®.
- Allow time for ink to dry before laminating.
- Can use thermal or pressure laminates
- Lamination is recommended for prints requiring UV protection or greater general durability if they may be subject to moisture or handling. This media is suitable for pressure (cold) or thermal (hot-melt) laminates. Protect from moisture and/or abrasion with at least a 75 micron laminate on front side or both sides. Encapsulate with a 1/4 inch (6 mm) edge for outdoor use.

## Xerox Universal Photo Paper 195 g/m<sup>2</sup>

### Product Description

This premium universal, microporous coated photo-paper, is fully compatible with all commonly used dye and pigment inks with exceptionally fast drying time to minimize the delay between printing and lamination. The 195 g/m<sup>2</sup> base weight gives excellent mechanical properties for use with or without over-lamination or mounting. Both satin and gloss have extremely uniform surface finishes.

Due to the heavier base weight and premium coating, this product provides the highest ink capacity of all Xerox photo papers and most others offered for inkjet printing, giving the best possible color imaging: high contrast, excellent edge definition, brilliant true colors, soft gradients, and photorealistic prints in resolution up to 1440 dpi.

### Applications

Photographic quality presentation graphics, retail and point-of-purchase display, trade shows and exhibition graphics, posters and general purpose graphics. Any application where high-quality, durable, pigment-printed photographic reproductions are required.

### Physical Properties

#### 195 g/m<sup>2</sup> Xerox Universal Photo Paper Gloss

Product Code	Width		Length		m <sup>2</sup>
023R02110	1524 mm	60"	30.5 m	100 ft	47
023R02111	1067 mm	42"	30.5 m	100 ft	33
023R02112	914 mm	36"	30.5 m	100 ft	28
023R02113	610 mm	24"	30.5 m	100 ft	19

<b>Base Weight</b>	195 g/m <sup>2</sup>
<b>Caliper</b> (microns)	200
<b>Whiteness</b> (CIE)	125
<b>Opacity</b>	93%
<b>Gloss</b>	80%

#### 195 g/m<sup>2</sup> Xerox Universal Photo Paper Satin

Product Code	Width		Length		m <sup>2</sup>
023R02114	1524 mm	60"	30.5 m	100 ft	47
023R02115	1067 mm	42"	30.5 m	100 ft	33
023R02116	914 mm	36"	30.5 m	100 ft	28
023R02117	610 mm	24"	30.5 m	100 ft	19

<b>Base Weight</b>	195 g/m <sup>2</sup>
<b>Caliper</b> (microns)	200
<b>Whiteness</b> (CIE)	125
<b>Opacity</b>	93%
<b>Gloss</b>	60%

## Compatibility

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Printer	Ink Type
Xerox 8142/8160	Dye/Pigment
HP 7XX/8XX/1XXX	Dye (& Pigment Black)
HP 2XXX/3XXX/5XXX	Dye/Pigment
Epson Stylus Pro 7000/9000/7500/9500/10000	Dye/Pigment
Epson Stylus Pro 7600/9600/10600	Dye/Ultrachrome®
Encad Novajet	GA/GS/GS+/GX/GO
Encad 1000i	Dye/Pigment

## Critical Operating Instructions

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- For best results store and use within temperature of 50-86°F (10-30°C) and 30-65% relative humidity.
- Store the product in its original box and bag.
- Select Photo Black ink if using Epson Ultrachrome®.
- Allow time for ink to dry before laminating.
- Lamination is recommended for prints requiring UV protection or greater general durability if they may be subject to moisture or handling. This media is suitable for pressure (cold) or thermal (hot-melt) laminates. Protect from moisture and/or abrasion with at least a 75 micron laminate on front side or both sides. Encapsulate with a 1/4 inch (6 mm) edge for outdoor use.

## Xerox Universal Photo Paper 215 g/m<sup>2</sup>

### Product Description

With extra stiffness and bulk, this opaque, white, photo base paper has a PE film coating on both sides; truly universal, instant drying with microporous coating. High ink capacity for wide-gamut imaging using either dye or pigment inks.

Suits a range of applications where a degree of stiffness and bulk are important. The heavier weight of this photo paper can be particularly effective in enabling the print to keep a uniform surface without creasing from handling – particularly useful for un laminated gloss prints. Available in satin or high gloss surface finishes.

### Applications

Photographic quality presentation graphics, retail and point-of-purchase display, trade shows and exhibition graphics, posters and general purpose graphics – where extra stiffness and bulk are needed.

### Physical Properties

#### 215 g/m<sup>2</sup> Xerox Universal Photo Paper Gloss

Product Code	Width		Length		m <sup>2</sup>
023R02118	1270 mm	50"	20 m	66 ft	25
023R02119	1067 mm	42"	20 m	66 ft	21
023R02120	914 mm	36"	20 m	66 ft	18
023R02121	610 mm	24"	20 m	66 ft	12

Base Weight	215 g/m <sup>2</sup>
Caliper (microns)	210
Whiteness (CIE)	135
Opacity	96%
Gloss	80%

#### 215 g/m<sup>2</sup> Xerox Universal Photo Paper Satin

Product Code	Width		Length		m <sup>2</sup>
023R02122	1270 mm	50"	20 m	66 ft	25
023R02123	1067 mm	42"	20 m	66 ft	21
023R02124	914 mm	36"	20 m	66 ft	18
023R02125	610 mm	24"	20 m	66 ft	12

Base Weight	215 g/m <sup>2</sup>
Caliper (microns)	210
Whiteness (CIE)	135
Opacity	96%
Gloss	65%

## Compatibility

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Printer	Ink Type
Xerox 8142/8160	Dye/Pigment
HP 7XX/8XX/1XXX	Dye (& Pigment Black)
HP 2XXX/3XXX/5XXX	Dye/Pigment
Epson Stylus Pro 7000/9000/7500/9500/10000	Dye/Pigment
Epson Stylus Pro 7600/9600/10600	Dye/Ultrachrome®
Encad Novajet	GA/GS/GS+/GX/GO
Encad 1000i	Dye or Pigment

## Critical Operating Instructions

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- For best results store and use within temperature of 50-86°F (10-30°C) and 30-65% relative humidity.
- Store the product in its original box and bag.
- Select Photo Black if using Epson Ultrachrome®.
- Allow time for ink to dry before laminating.
- Can use thermal or pressure laminates.
- Lamination is recommended for prints requiring UV protection or greater general durability if they may be subject to moisture or handling. This paper is suitable for pressure (cold) or thermal (hot-melt) laminates. Protect from moisture and/or abrasion with at least a 75 micron laminate on front side or both sides. Encapsulate with a 1/4 inch (6 mm) edge for outdoor use.



## Xerox Universal Photo Paper 285 g/m<sup>2</sup>

### Product Description

With extra stiffness and bulk, this opaque, white, photo base paper has a PE film coating on both sides; this photo paper is truly universal, instant drying with microporous coating. High ink capacity for wide-gamut imaging using either dye or pigment inks.

Suits a range of applications where very high stiffness and bulk are important. The weight of this paper makes it particularly effective in enabling the print to keep a uniform surface without creasing from handling—especially useful for un laminated gloss prints. Available in satin or gloss surface finishes.

### Applications

Photographic quality presentation graphics, retail and point-of-purchase display, trade shows and exhibition graphics, posters and general purpose graphics— where extra stiffness and bulk are needed.

### Physical Properties

#### 285 g/m<sup>2</sup> Xerox Universal Photo Paper Gloss

Product Code	Width		Length		m <sup>2</sup>
023R02126	1524 mm	60"	15 m	49 ft	23
023R02127	1067 mm	42"	15 m	49 ft	16
023R02128	914 mm	36"	15 m	49 ft	14
023R02129	610 mm	24"	15 m	49 ft	9

Base Weight	285 g/m <sup>2</sup>
Caliper (microns)	280
Whiteness (CIE)	135
Opacity	100%
Gloss	80%

#### 285 g/m<sup>2</sup> Xerox Universal Photo Paper Satin

Product Code	Width		Length		m <sup>2</sup>
023R02130	1524 mm	60"	15 m	49 ft	23
023R02131	1067 mm	42"	15 m	49 ft	16
023R02132	914 mm	36"	15 m	49 ft	14
023R02133	610 mm	24"	20 m	66 ft	9

Base Weight	285 g/m <sup>2</sup>
Caliper (microns)	280
Whiteness (CIE)	135
Opacity	100%
Gloss	65%

## Compatibility

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Printer	Ink Type
Xerox 8142/8160	Dye/Pigment
HP 7XX/8XX/1XXX	Dye (& Pigment Black)
HP 2XXX/3XXX/5XXX	Dye/Pigment
Epson Stylus Pro 7000/9000/7500/9500/10000	Dye/Pigment
Epson Stylus Pro 7600/9600/10600	Dye/Ultrachrome®
Encad Novajet	GA/GS/GS+/GX/GO
Encad 1000i	Dye or Pigment

## Critical Operating Instructions

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- For best results store and use within temperature of 50-86°F (10-30°C) and 30-65% relative humidity.
- Store the product in its original box and bag.
- Select Photo Black if using Epson Ultrachrome®.
- Allow time for ink to dry before laminating.
- Can use thermal or pressure laminates.
- Lamination is recommended for prints requiring UV protection or greater general durability if they may be subject to moisture or handling. This paper is suitable for pressure (cold) or thermal (hot-melt) laminates. Protect from moisture and/or abrasion with at least a 75 micron laminate on front side or both sides. Encapsulate with a 1/4 inch (6 mm) edge for outdoor use.

## Xerox Display Paper 95 g/m<sup>2</sup>\*

### Product Description

An economical paper with a brightly colored print surface designed for short-term retail POP display and prints involving simple messaging with low-ink density graphics. This display paper is available in strong yellow and in fluorescent yellow for a choice of background for high-impact display, gained without heavy ink use.

### Applications

POP, supermarket and other retail displays and signage.

### Physical Properties

Color	Product Code	Width		Length		m <sup>2</sup>
Yellow	023R02134	1524 mm	60"	46 m	150 ft	70
Yellow	023R02135	1067 mm	42"	46 m	150 ft	49
Fluorescent Yellow	023R02136	1524 mm	60"	46 m	150 ft	70
Fluorescent Yellow	023R02137	1067 mm	42"	46 m	150 ft	49

<b>Base Weight</b>	95 g/m <sup>2</sup>
<b>Caliper</b> (microns)	115
<b>Opacity</b>	96%

### Compatibility

Printer	Ink Type
Xerox 8142/8160	Dye
HP 2XXX/3XXX/5XXX	Dye/Pigment
Epson Stylus Pro 7000/9000/7500/9500/10000	Dye/Pigment
Epson Stylus Pro 7600/9600/10600	Ultrachrome®
Encad Novajet	GA/GS/GS+/GX/GO
Encad 1000i	Dye

### Critical Operating Instructions

- For best results store and use within temperature of 64-77°F (18-25°C) and 40-60% relative humidity.
- Store the product in its original box and bag.
- Allow time for ink to dry before laminating.
- Can use thermal or pressure laminates.
- Lamination is recommended for prints requiring satin, matte, high gloss or other finishes and/or prints requiring UV protection or greater general durability if they may be subject to moisture or handling. This media is suitable for pressure (cold) or thermal (hot-melt) laminates. Protect from moisture and/or abrasion with at least a 75 micron laminate on front side or both sides. Encapsulate with a 1/4 inch (6 mm) edge for outdoor use.

\*Currently available in Europe only.

## Xerox Display Paper – Fire Retardant 120 g/m<sup>2</sup>\*

### Product Description

Fire retardant paper designed for retail point-of-purchase display and prints involving simple messaging with low-ink density graphics. This display paper is not suitable for high intensity graphics, but is a low usage, cost-effective display solution. This product is available in a white or fluorescent yellow. The white surfaced paper is for normal color printing, and the fluorescent yellow is available to produce a higher level of display impact with low ink usage as a cost-effective display solution. The flame retardant properties of this paper allow its use in fire sensitive environments such as indoor shopping complexes and other enclosed public places. The paper complies with the regulations for classification M1 flame retardant.

### Applications

Signage and point-of-purchase display in supermarkets, shopping arcades, museums, underground railways, historic buildings and any environment where fire safety and fire regulations must be observed.

### Physical Properties

Color	Product Code	Width		Length		m <sup>2</sup>
White	023R02138	1524 mm	60"	31 m	100 ft	47
White	023R02139	1067 mm	42"	31 m	100 ft	33
Yellow Fluorescent	023R02140	1524 mm	60"	31 m	100 ft	47
Yellow Fluorescent	023R02141	1067 mm	42"	31 m	100 ft	33

<b>Base Weight</b>	120 g/m <sup>2</sup>
<b>Caliper</b> (microns)	160
<b>Whiteness</b> (CIE)	146
<b>Opacity</b>	97%

### Compatibility

Printer	Ink Type
Xerox 8142/8160	Dye
HP 2XXX/3XXX/5XXX	Dye/Pigment
Epson Stylus Pro 7000/9000/7500/9500/10000	Dye/Pigment
Epson Stylus Pro 7600/9600/10600	Ultrachrome®
Encad Novajet	GA/GS/GS+/GX/GO
Encad 1000i	Dye

### Critical Operating Instructions

- For best results store and use within temperature of 64-77°F (18-25°C) and 40-60% relative humidity.
- Store the product in its original box and bag.
- Lamination is recommended for prints requiring satin, matte, high gloss or other finishes and/or prints requiring UV protection or greater general durability if they may be subject to moisture or handling. This media is suitable for pressure (cold) or thermal (hot-melt) laminates.

\*Currently available in Europe only.

## Xerox Outdoor Poster Paper – Blue Back 120 g/m<sup>2</sup>

### Product Description

A water-resistant, highly-opaque poster paper suitable for indoor graphics and outdoor signage. High ink capacity allows bright prints in a broad color gamut. Blue backing reinforces the paper's high opacity, to minimize show-through when pasted over other images. The blue back also gives this paper the required properties for backlit display applications, providing an economical alternative to film-based backlit media.

This material may expand up to 3% when wet and will shrink back to within 1% of its original size. If intended installation surface requires exact size specification, and particularly for multi-panel displays, experiment and consider adjusting the image size to compensate.

While this media is capable of withstanding soaking in water, soaking is not recommended due to the limitations of water-based inks. Let the graphic dry for at least 24 hours prior to pasting to improve image durability.

While no lamination is required for outdoor use, this poster paper can be over-laminated with hot or cold laminates.

### Applications

Excellent for all billboard applications and signage, such as transit shelters, subway advertisements, multi-paneled murals, sporting event signage (golf tournament tee signs, promotions, etc.), outdoor festival direction and display signage, outdoor markets, construction covering signs, etc, and indoor presentation applications.

### Physical Properties

Product Code	Width		Length		m <sup>2</sup>
023R02142	1524 mm	60"	31 m	100 ft	47
023R02143	1067 mm	42"	31 m	100 ft	33
023R02144	914 mm	36"	31 m	100 ft	28
023R02145	610 mm	24"	31 m	100 ft	19

Base Weight	120 g/m <sup>2</sup>
Caliper (microns)	155
Whiteness (CIE)	149
Opacity	98%

### Compatibility

Printer	Ink Type
Xerox 8142/8160	Dye/Pigment
HP 1XXX	Dye (Black pigment)
HP 2XXX/3XXX/5XXX	Dye/Pigment
Epson Stylus Pro 7000/9000/7500/9500/10000	Dye/Pigment
Epson Stylus Pro 7600/9600/10600	Ultrachrome®
Encad Novajet	GA/GS/GS+/GX/GO
Encad 1000i	Dye/Pigment

### Critical Operating Instructions

- For best results store and use within temperature of 50-86°F (10-30°C) and 30-65% relative humidity.
- Keep the product in the original box and bag.
- Durability tests show good results for up to 4 weeks outdoors, unlaminated.
- For best water resistance allow prints to dry 24 hours before making contact with glue.
- Moisten prints for no more than 4 hours prior to pasting, then fix immediately.
- Note that after moistening the print will expand but may shrink back by up to 1% in all directions.
- For easiest application coat the billboard with glue.

## Xerox Canvas Paper 180 g/m<sup>2</sup>

### Product Description

Matte paper with a linen structure and a special canvas embossed surface finish for high quality graphic art reproductions. Compatible with both dye and pigment inks. The print surface has a coating to accurately hold ink and allow it to dry rapidly. This paper gives fine color graduation, excellent color density and image sharpness.

Canvas paper is not usually finished with an over-laminate as it is usually selected to give the print a textured surface as a feature. The weight and body of the paper are sufficient to give prints reasonable self-supporting strength.

### Applications

Fine art reproductions, high quality posters, any application where a canvas embossed surface texture will enhance the graphic effect.

### Physical Properties

Product Code	Width		Length		m <sup>2</sup>
023R02148	914 mm	36"	12 m	39 ft	11

Base Weight	180 g/m <sup>2</sup>
Caliper (microns)	280–305
Whiteness (CIE)	165
Opacity	99%

### Compatibility

Printer	Ink Type
Xerox 8142/8160	Dye/Pigment
HP 2XXX/3XXX/5XXX	Dye/Pigment
Epson Stylus Pro 7000/9000/7500/9500/10000	Dye/Pigment
Epson Stylus Pro 7600/9600/10600	Ultrachrome®
Encad Novajet	GA/GS/GS+/GX/GO
Encad 1000i	Dye/Pigment

### Critical Operating Instructions

- For best results store and use within temperature of 50-86°F (10-30°C) and 35-65% relative humidity.
- Store the product in its original box and bag.
- Handle with care using cotton gloves to avoid marking the coated surface.

## Xerox Optically Clear Film 120 micron

### Product Description

This optically clear, durable, polyester film has a clear ink-receptive front coating and an anti-static coating on the backside, suitable for producing vibrant colors and sharp edge detail in graphic art printing but also excellent for high quality fine line detail work, either color or monochrome. Dimensional stability of this film gives particular benefits for applications such as overlay graphics.

Compatible with dye inks, with some capability for certain pigment ink systems. Images dry fast, even with heavy ink loading.

### Applications

Clear signs, window graphics, retail point of sale, exhibitions, trade shows and overlays.

### Physical Properties

Product Code	Width		Length		m <sup>2</sup>
023R01531	1270 mm	50"	20 m	66 ft	25
023R01532	914 mm	36"	20 m	66 ft	18
023R01582	610 mm	24"	20 m	66 ft	12

Base Weight	160 g/m <sup>2</sup>
Caliper (microns)	120
Translucency	94%

### Compatibility

Printer	Ink Type
Xerox 8142/8160	Dye/Pigment
Epson Stylus Pro 7000/9000/7500/9500/10000	Dye/Pigment
Epson Stylus Pro 7600/9600/10600	Ultrachrome®
Encad Novajet	GS/GS+/GX
Encad 1000i	Dye/Pigment
Oce 5100c/5120c	Dye

### Critical Operating Instructions

- For best results store and use within temperature of 50-86°F (10-30°C) and 30-65% relative humidity.
- Store the product in its original box and bag.
- Lamination is possible for prints requiring UV protection or greater general durability if they may be subject to moisture or handling. This media is suitable for pressure (cold) laminates but not thermal laminates. Protect from moisture and/or abrasion with at least a 75 micron laminate on the printed side.

## Xerox Optically Clear Film (with removable edge strip) 100 micron

### Product Description

This optically clear, durable, polyester film has a clear ink-receptive front coating and an anti-static coating on the backside, suitable for producing vibrant colors and sharp edge detail in graphic art printing, but also excellent for high quality fine line detail work, either color or monochrome. Dimensional stability of this film gives particular benefits for applications such as overlay graphics.

This film has a removable edge strip for **HP Design Jet printers**. Compatible with dye inks only. Images dry fast and even with heavy ink loading.

### Applications

Clear signs, window graphics, retail point of sale, exhibitions, trade shows and overlays.

### Physical Properties

Product Code	Width		Length		m <sup>2</sup>
023R01637	1270 mm	50"	20 m	66 ft	25
023R01636	1067 mm	42"	20 m	66 ft	21
023R01635	914 mm	36"	20 m	66 ft	18
023R01634	610 mm	24"	20 m	66 ft	12

Base Weight	160 g/m <sup>2</sup>
Caliper (microns)	100
Translucency	93%

### Compatibility

Printer	Ink Type
Xerox 8142/8160	Dye
HP 2XXX/3XXX/5XXX	Dye
Epson Stylus Pro 7000/9000/7500/9500/10000	Dye
Epson Stylus Pro 7600/9600/10600	Ultrachrome®
Encad Novajet	GA/GS/GS+
Encad 1000i	Dye

### Critical Operating Instructions

- For best results store and use within temperatures of 50-86°F (10-30°C) and relative humidity of 30-65%.
- Select the best quality photo glossy paper or film setting available. Do not use a transparency setting.
- Note: Some older HP printers default to pigment black ink for any black paragraph text. To avoid this problem, incorporate text into the image.
- Lamination is possible for prints requiring satin, matte, high gloss or other finishes and/or prints requiring UV protection or greater general durability if they may be subject to moisture or handling. This media is suitable for pressure (cold) laminates but not thermal laminates. Protect from moisture and/or abrasion with at least a 75 micron laminate on the printed side.



## Xerox White Opaque Glossy Film 120 micron

### Product Description

An opaque white coated polyester film with a gloss surface equal to that of gloss photo paper. High ink capacity also gives brilliant colors and the widest possible color gamut. Precise dot control gives clean edge or line definition with absolutely no bleed, and the high-density coating enables printing heavily inked areas without over-saturation or puddling.

The durable polyester base makes this media ideal in applications where a photo quality glossy print is needed, but where the application demands resistance to abrasion or other mechanical weathering that exceeds the capabilities of a photo paper.

Compatible generally with all dye inks and most pigment inks with some exceptions. Some pigment inks may not penetrate the surface.

Can be used as a relatively durable print without lamination. However, over-lamination does extend the life of dye ink prints. This media is suitable for pressure (cold) laminates but **not** thermal laminates. Protect from UV, atmospheric degradations and/or abrasion with at least a 75 micron laminate on the printed side.

### Applications

Photographic quality presentation graphics for retail and point-of-purchase display, trade shows and exhibition graphics, posters and general-purpose graphics: any application where high-quality, durable photographic reproductions are required.

### Physical Properties

Product Code	Width		Length		m <sup>2</sup>
023R01491	1270 mm	50"	20 m	66 ft	25
023R01493	914 mm	36"	20 m	66 ft	18
023R01494	610 mm	24"	20 m	66 ft	12

Base Weight	170 g/m <sup>2</sup>
Caliper (microns)	120
Whiteness (CIE)	122
Opacity	90%
Gloss	90%

### Compatibility

Printer	Ink Type
Xerox 8142/8160	Dye/Pigment
HP 1XXX/2XXX/3XXX/5XXX	Dye/Pigment
Epson Stylus Pro 7000/9000/7500/9500/10000	Dye/Pigment
Epson Stylus Pro 7600/9600/10600	Ultrachrome®
Encad Novajet	GS/GS+/GX
Encad 1000i	Dye/Pigment
Oce 5100c/5120c	Dye

### Critical Operating Instructions

- For best results store and use within temperature of 50-86°F (10-30°C) and 30-65% relative humidity.

## Xerox Backlit Film (back print) 130 micron

### Product Description

A versatile coated polyester film with a printable side developed especially for light box applications. Image is printed in reverse and viewed through the base film material. This gives the advantage that the printed image on display is contained inside the light box and therefore protected from mechanical damage. Its film base and unique, fast-dry coating enables excellent image quality, rich deep colors with superior saturation and contrast, sharp details, and excellent image clarity.

Ideal for all backlit applications, indoors and out. High image density will not appear “washed-out” when viewed under fixture lights, or seem too dark when lights are turned off. Small text will not “break-up” or become fuzzy.

### Applications

For all backlit applications, such as lobby signs, parking garage signage, restaurant, casino signage, transit shelters, airports, elevator displays, retail promotion, mall directories, subway/transit notices and signage, kiosks, window display units, drive-through menu fixtures, interior menu boards, price list fixtures, retail or supermarket aisle signs, checkout displays, trade show images and convenience store signage.

### Physical Properties

Product Code	Width		Length		m <sup>2</sup>
023R01496	1524 mm	60"	20 m	66 ft	31
023R01497	1372 mm	54"	20 m	66 ft	27
023R01498	1270 mm	50"	20 m	66 ft	25
023R01499*	1118 mm	44"	20 m	66 ft	22
023R01500	1067 mm	42"	20 m	66 ft	21
023R01501	914 mm	36"	20 m	66 ft	18

Base Weight	160 g/m <sup>2</sup>
Caliper (microns)	130
Whiteness (CIE)	170
Opacity	72%

### Compatibility

Printer	Ink Type
Xerox 8142/8160	Dye/Pigment
HP 7XX/1XXX	Dye (& Pigment Black)
HP 2XXX/3XXX/5XXX	Dye/Pigment
Epson Stylus Pro 7000/9000/7500/9500/10000	Dye/Pigment
Epson Stylus Pro 7600/9600/10600	Ultrachrome®
Encad Novajet	GS/GS+/GO
Encad 1000i	Dye/Pigment

### Critical Operating Instructions

- For best results store and use within temperature of 50-86°F (10-30°C) and 30-65% relative humidity.
- Store the product in its original bag and box.
- Print in reverse on the matte side of the roll.
- Before lamination leave the print flat for about 30 minutes. Use hot or cold laminates.
- The outside of the film can be written on using water resistant felt tip pens. Pen markings can be removed with a cloth and water or methylated spirits.
- Lamination is recommended for prints requiring UV protection or greater general durability if they may be subject to moisture, handling or other aging elements. Apply either a pressure (cold) or thermal (hot-melt) laminate on the printed side.

\* Not available in U.S.

## Xerox Backlit Film (front print) 140 micron

### Product Description

A versatile direct-write polyester film specifically coated to provide excellent image quality, rich deep colors with superior saturation and contrast. Ideal for all backlit applications, indoors and out. Images will not “wash-out” when viewed under fixture lights, or seem too dark when lights are turned off.

Details are sharp, and image clarity is excellent. Small text will not “break-up” or become fuzzy.

### Applications

Excellent for all backlit applications, such as lobby signs, parking garage signage, casino signage, transit shelters, airport fixtures, elevator displays, retail promotion, mall directories, subway/transit directories, kiosks, window display units, drive-through menu fixtures, interior menu boards, monies exchange rate booths, price list fixtures, retail or supermarket aisle signs, checkout displays, trade show images and convenience store signage.

### Physical Properties

Product Code	Width		Length		m <sup>2</sup>
023R02150	1524 mm	60"	30 m	98 ft	46
023R02151	1067 mm	42"	30 m	98 ft	32
023R02152	914 mm	36"	30 m	98 ft	27

Base Weight	156 g/m <sup>2</sup>
Caliper (microns)	140
Whiteness (CIE)	110
Opacity	64%

### Compatibility

Printer	Ink Type
Xerox 8142/8160	Dye/Pigment
HP 2XXX/3XXX/5XXX	Dye/Pigment
Epson Stylus Pro 7000/9000/7500/9500/10000	Dye/Pigment
Epson Stylus Pro 7600/9600/10600	Ultrachrome®
Encad Novajet	GA/GS/GS+/GX/GO
Encad 1000i	Dye/Pigment

### Critical Operating Instructions

- For best results store and use within temperature of 50-86°F (10-30°C) and 30-65% relative humidity.
- Ensure the appropriate color profile and resolution setting is used when imaging a file.
- Laminate prints after fully dried but within 4-8 hours of printing.
- For use with pressure laminates only on one or both sides of a print.
- Lamination is recommended for prints requiring special finishes, and/or UV protection or greater general durability if they may be subject to moisture or handling. This media is suitable for pressure (cold) laminates but not thermal laminates. Apply cold laminate to the printed side.

## Xerox Metallic Film\*

### Product Description

A glossy-metallic, mirror-finish film for special display effects suitable for printing with dye inks only. Excellent image definition with fast drying capability. Choice of gold or silver film to produce a variety of striking metallic effects and colors, eg. print orange on silver to get gold.

Metallic film is not suitable for pigment inks.

### Applications

Trade shows, retail point-of-sale signage, advertising posters in low-lighting environments such as restaurants, bars, and nightclubs.

### Physical Properties

Color	Product Code	Width		Length		m <sup>2</sup>
Silver	023R01598	1270 mm	50"	20 m	66 ft	25
Silver	023R01597	914 mm	36"	20 m	66 ft	18
Gold	023R01596	1270 mm	50"	20 m	66 ft	25
Gold	023R01595	914 mm	36"	20 m	66 ft	18

Base Weight	156 g/m <sup>2</sup>
Caliper (microns)	100

### Compatibility

Printer	Ink Type
Xerox 8142/8160	Dye
HP 2XXX/3XXX/5XXX	Dye
Epson Stylus Pro 7000/9000/7500/9500/10000	Dye
Encad Novajet	GA/GS/GS+
Encad 1000i	Dye

### Critical Operating Instructions

- For best results store and use within temperature of 50-86°F (10-30°C) and 30-65% relative humidity.
- Select the highest quality photo glossy paper/film setting available.
- Note on older HP printers some default to black pigment inks for plain black paragraph test. To avoid this problem incorporate text into the image.
- For Xerox 8142/8160 and other printers with output drier fans and heated platens use fans without heat to assist drying.
- Lamination is recommended for prints requiring satin or other finishes and/or prints that need to be protected from the effects of UV or atmospheric degradation, or if they may be subject to mechanical damage. This media is suitable for pressure (cold) or thermal (hot-melt) over-laminates.

\*Currently available in Europe only.

## Xerox Polycarbonate Pop-Up Film & Backer\*

### Product Description

A printable polycarbonate pop-up film, a translucent film, which is printed on its reverse side and sealed with a backer to form a 2-part pop up graphic display panel. Strong and dimensionally stable with a low glare surface finish. Use in conjunction with Xerox self adhesive backing film for robust pop-up panels. Compatible with dye and pigmented inks.

A self-adhesive backer, highly opaque, white matte melinex-based film with a water-based adhesive backing for use in conjunction with printable polycarbonate pop-up film (above). The backer provides a light stopping, rigid, dimensionally stable pop-up base. It can also be used as a light-stop laminate for 200 micron White Matte Banner Film for a total light stopping solution.

### Applications

For exhibition panels, and pop up displays where a totally opaque, light stopping solution is required.

### Physical Properties

Color	Product Code	Width		Length		m <sup>2</sup>
Polycarbonate Pop-Up Film – Back Print	023R01606	900 mm		40 m	131 ft	36
Polycarbonate Pop-Up Film – Back Print	023R01474	914 mm	36"	20 m	66 ft	18
White Polyester Self-Adhesive Light Stop Backer	023R01478	880 mm		50 m	164 ft	44
White Polyester Self-Adhesive Light Stop Backer	023R01477	914 mm	36"	20 m	66 ft	18

Base Weight	312 g/m <sup>2</sup>
Caliper (microns)	275

### Compatibility

Printer	Ink Type
Xerox 8142/8160	Dye/Pigment
HP 2XXX/3XXX/5XXX	Dye/Pigment
Epson Stylus Pro 7000/9000/7500/9500/10000	Dye/Pigment
Epson Stylus Pro 7600/9600/10600	Ultrachrome®
Encad Novajet	GA/GS/GS+/GX
Encad 1000i	Dye/Pigment

### Critical Operating Instructions

- For best results store and use within temperature of 50-86°F (10-30°C) and 30-65% relative humidity.
- Store the product in its original bag and box.
- Print in reverse on the matte side.
- Allow the print to cure for 2-3 hours before finishing.
- For pop-up displays cold laminate with Xerox light stop backing film.
- For best results laminate with rollers at room temperature and with the minimum amount of pressure.

\*Currently available in Europe only.

## Xerox Light Stop Pop-Up Film (front print)\*

### Product Description

This is a printable 2-part pop-up material: a heavy duty, but not bulky, dimensionally stable, melinex-based film with excellent light stopping characteristics. With a unique backside coating designed to prevent slippage during printing, avoiding any issues with printing matching adjacent panels. Universally suitable for use with both dye and pigment inks

### Applications

For exhibition panels, and pop-up displays requiring light stopping performance.

### Physical Properties

#### 150 micron Xerox Light Stop Pop-Up Film – (front print)

Product Code	Width		Length		m <sup>2</sup>
023R01641	914 mm	36"	30 m	98 ft	27
023R01642	1270 mm	50"	30 m	98 ft	38

Base Weight	171 g/m <sup>2</sup>
Caliper (microns)	150
Opacity	98%

#### 300 micron Xerox Light Stop Pop-Up Film – (front print)

Product Code	Width		Length		m <sup>2</sup>
023R01476	914 mm	36"	50 m	164 ft	46
023R01475	914 mm	36"	20 m	66 ft	18

Base Weight	385 g/m <sup>2</sup>
Caliper (microns)	300
Opacity	98%

### Compatibility

Printer	Ink Type
Xerox 8142/8160	Dye/Pigment
HP 2XXX/3XXX/5XXX	Dye/Pigment
Epson Stylus Pro 7000/9000/7500/9500/10000	Dye/Pigment
Epson Stylus Pro 7600/9600/10600	Ultrachrome®
Encad Novajet	GA/GS/GS+
Encad 1000i	Dye/Pigment

### Critical Operating Instructions

- For best results store and use within temperature of 50-86°F (10-30°C) and 30-65% relative humidity.
- Store the product in its original bag and box.
- Lamination is recommended for prints requiring satin, matte, high gloss or other unique finishes and/or prints requiring UV protection or greater general durability if they may be subject to moisture or handling. This media is suitable for pressure (cold) laminates only – **not** suitable for thermal (hot-melt) laminates. Use a laminate of at least 75 micron thickness on front side or both sides.

\*Currently available in Europe only.

## Xerox White Matte Banner Film 200 micron\*

### Product Description

A matte, white film for single drop banners, roll-up stands and roll-down hanging displays. Designed to produce vivid, full-color, photo-realistic, direct-write digital images in 600 dpi mode with dye and pigment inks and rapid drying. The thickness of this film gives banners sufficient body and strength to provide a flat image surface when a display is erected, and the film is tear-resistant to withstand handling. The matte finish of the base film offers an image

surface with minimal light reflection without dulling the printed image. This is also a truly water resistant media for use as an alternative to paper in “field” projects or when graphics will be exposed to weather or rough handling.

### Applications

Good for all roll-up and roll-down or hanging banners, durable presentation graphics, such as exhibition graphics panels, posters, point-of-sale graphics, signage indoors or outdoors, merchandising materials, mounted prints, promotional displays and corporate graphics.

### Physical Properties

Product Code	Width		Length		m <sup>2</sup>
023R01604	1524 mm	60"	20 m	66 ft	31
023R01603	1372 mm	54"	20 m	66 ft	27
023R01473	1270 mm	50"	20 m	66 ft	25
023R01602	1067 mm	42"	20 m	66 ft	21
023R01601	914 mm	36"	20 m	66 ft	18

Base Weight	265 g/m <sup>2</sup>
Caliper (microns)	200
Whiteness (CIE)	108
Opacity	98%

### Compatibility

Printer	Ink Type
Xerox 8142/8160	Dye/Pigment
HP 2XXX/3XXX/5XXX	Dye/Pigment
Epson Stylus Pro 7000/9000/7500/9500/10000	Dye/Pigment
Epson Stylus Pro 7600/9600/10600	Ultrachrome®
Encad Novajet	GA/GS/GS+/GX/GO
Encad 1000i	Dye/Pigment

### Critical Operating Instructions

- For best results store and use within temperature of 50-86°F (10-30°C) and 30-65% relative humidity.
- Store the product in its original bag and box.
- Lamination is recommended for prints requiring satin, gloss or other finishes and/or prints requiring UV protection or greater general durability if they may be subject to moisture or mechanical damage. This media is suitable for pressure (cold) laminates only – not suitable for thermal (hot-melt) laminates. Use a laminate of at least 75 micron thickness on front side or both sides.

\*Currently available in Europe only.

## Xerox Banner Polyester 290 micron

### Product Description

This flexible coated polyester media for indoor and outdoor banners works well with both dye and pigment inks. This banner material printed with pigment inks shows minimal color loss on high-density ink areas after two months outdoors. It can be sewn or punched but not welded, and complies with the requirements for classification as M2 flame retardant making this an ideal banner material for fire-sensitive environments.

Lamination is recommended for prints requiring satin, matte, high gloss or other finishes and/or prints requiring UV or general protection if they may be subject to moisture or handling. This media is suitable for pressure (cold) laminates, but is **not** suitable for thermal (hot-melt) laminates.

### Applications

For indoor and outdoor banners.

### Physical Properties

Product Code	Width		Length		m <sup>2</sup>
023R01583	1524 mm	60"	15 m	49 ft	23
023R01584	1372 mm	54"	15 m	49 ft	21
023R01585	1270 mm	50"	15 m	49 ft	19
023R01586	1118 mm	44"	15 m	49 ft	17
023R01587	1067 mm	42"	15 m	49 ft	16
023R01588	914 mm	36"	15 m	49 ft	14

Base Weight	290 g/m <sup>2</sup>
Caliper (microns)	290
Whiteness (CIE)	157
Opacity	96%

### Compatibility

Printer	Ink Type
Xerox 8142/8160	Dye/Pigment
HP 2XXX/3XXX/5XXX	Dye/Pigment
Epson Stylus Pro 7000/9000/7500/9500/10000	Dye/Pigment
Epson Stylus Pro 7600/9600/10600	Ultrachrome®
Encad Novajet	GA/GS/GS+/GX/GO
Encad 1000i	Dye/Pigment

### Critical Operating Instructions

- For best results store and use within temperature of 50-86°F (10-30°C) and 35-65% relative humidity.
- Store the product in its original bag and box.
- Select Photo Black ink if using Epson Ultrachrome®.
- Material can be sewn and punched with eyelets, but not welded.
- Leave prints overnight or for at least 12 hours before outdoor use to maximize water resistance.



## Xerox Matte Polypropylene Banner 185 & 320 micron

### Product Description

A tough, water resistant material which offers an effective, lower cost alternative to polyester which addresses many of the applications for which polyester has traditionally been used. The heavier weight 320 micron polypropylene material has excellent mechanical strength for durability in the most demanding applications with full opacity. The lighter weight 185 micron material offers a lower cost option with similar properties.

Both lay flat and resist edge curl which are essential properties for display systems such as roll-up or hanging banners.

With a matte print surface, this material gives punchy color reproduction, solid blacks and fine definition in 600 or 1200 dpi resolutions. Xerox Matte Poly-propylene is universally suitable for either dye or pigment inks.

Lamination is recommended for prints requiring satin, matte, high gloss or other finishes and/or prints requiring protection from UV, dirt or abrasion, or greater general durability. This media is suitable for pressure (cold) but **not** for thermal (hot-melt) laminates.

### Applications

Good for all roll-up and roll-down or hanging banners, durable presentation graphics, such as exhibition graphics panels, posters, point-of-sale graphics, signage indoors or outdoors, merchandising materials, mounted prints, promotional displays and corporate graphics.

### Physical Properties

#### 185 micron Xerox Matte Polypropylene Banner

Product Code	Width		Length		m <sup>2</sup>
023R02166	1524 mm	60"	30 m	98 ft	46
023R02167	1067 mm	42"	30 m	98 ft	32
023R02168	914 mm	36"	30 m	98 ft	27

Base Weight	154 g/m <sup>2</sup>
Caliper (microns)	185
Whiteness (CIE)	116
Opacity	92%

#### 320 micron Xerox Matte Polypropylene Banner

Product Code	Width		Length		m <sup>2</sup>
023R02169	1524 mm	60"	15 m	49 ft	23
023R02170	1067 mm	42"	15 m	49 ft	16
023R02171	914 mm	36"	15 m	49 ft	14

Base Weight	305 g/m <sup>2</sup>
Caliper (microns)	320
Whiteness (CIE)	136
Opacity	100%

### Compatibility

Printer	Ink Type
Xerox 8142/8160	Dye/Pigment
HP 2XXX/3XXX/5XXX	Dye/Pigment
Epson Stylus Pro 7000/9000/7500/9500/10000	Dye/Pigment
Epson Stylus Pro 7600/9600/10600	Ultrachrome®
Encad Novajet	GA/GS/GS+/GX/GO
Encad 1000i	Dye/Pigment

### Critical Operating Instructions

- For best results store and use within temperature of 50-86°F (10-30°C) and 30-65% relative humidity.

## Xerox Banner Vinyl 400 g/m<sup>2</sup>

### Product Description

A mid-weight vinyl with a textile textured back, designed to provide a flexible, water- and tear-resistant base for indoor banners, and short-term outdoor applications where the banner is not subjected to wind or heavy duty mechanical stresses. Outdoor capabilities are also subject to properties of the specific ink system used.

The bright white print-receptive coating works with either dye or pigment ink systems and can achieve excellent image quality with good color densities, high resolution and sharp edge-definition. Pigment inks should be used for any applications where the print will be subject to UV radiation.

This material is suitable for the range of standard finishing procedures for banners. Lamination is recommended for prints requiring protection from dirt, abrasion or general weathering. This media is suitable for pressure (cold) laminates but **not** thermal (hot-melt) laminates.

### Applications

Suitable for indoor banner applications such as art galleries, retail and event promotions, long hallways or walkways, showrooms, supermarkets, ceiling displays, museums, theatre lobbies, entranceways, retail mall advertising, sport arenas, political campaigns, backdrops, signage, trade shows, table fronts. In contrast to standard presentation graphics and photo-based media applications where close-up viewing is normal, banner vinyl graphics are normally intended for viewing from 6 ft (2 m) or more and expectation of image quality is not equal; e.g. some banding may be acceptable.

### Physical Properties

Product Code	Width		Length		m <sup>2</sup>
023R02157	1524 mm	60"	15.2 m	50 ft	23
023R02158	1270 mm	50"	15.2 m	50 ft	19
023R02159	1067 mm	42"	15.2 m	50 ft	16
023R02160	914 mm	36"	15.2 m	50 ft	14

Base Weight	400 g/m <sup>2</sup>
Caliper (microns)	385
Opacity	98%

### Compatibility

Printer	Ink Type
Xerox 8142/8160	Dye/Pigment
HP 2XXX/3XXX/5XXX	Dye/Pigment
Epson Stylus Pro 7000/9000/7500/9500/10000	Dye/Pigment
Epson Stylus Pro 7600/9600/10600	Ultrachrome®
Encad Novajet	GA/GS/GS+/GX/GO
Encad 1000i	Dye/Pigment

### Critical Operating Instructions

- For best results store and use within temperature of 50-86°F (10-30°C) and 30-65% relative humidity.
- Banner vinyl image quality will differ from that of presentation paper and image quality expectations should allow for mid-distance viewing. Printing in unidirectional mode can minimize banding on some images.
- Avoid putting too much ink on the media as this may cause light spots to appear, especially in heavy coverage areas (such as 4 color blacks). Recommendation for total ink limit for Xerox 8142/8160 pigment inks is 220%.
- Over-lamination is not necessarily required except where subject to extreme moisture or abrasion. Use pressure sensitive laminates only.
- Do not stack or fold unlaminated images. Use “slip sheets” in carriage to avoid image offset from one unlaminated image to another. Don’t touch with grease, oil, or silicones.

## Xerox Outdoor Banner Vinyl 550 g/m<sup>2</sup>

### Product Description

A heavyweight vinyl consisting of a tear resistant polyester fabric sandwiched between two white vinyl layers to provide a flexible, resilient base for indoor and outdoor banner applications. With the appropriate pigment inks, this heavyweight vinyl should be sufficiently durable for up to 3 months outdoor use without fading, dependant on weather conditions.

This vinyl is also suitable for dye-based inks. High ink limits can be used to achieve excellent image quality with good color densities and brilliance, high resolution and sharp edge-definition. Additionally, the print surface has good resistance to scratching. Working at lower ink limits does, however, improve weather resistance.

This material is suitable for the range of standard finishing procedures for banners. Edges can be sewn or welded by inductive high frequency welding, and the banner can be punched for eyelets.

Lamination or lacquering is recommended for prints requiring protection from dirt, physical abrasion or general weathering and handling. This media is suitable for pressure (cold) laminates but **not** thermal (hot-melt) laminates. Alternatively use one or two compound polyurethane lacquer, taking care to protect borders and edges.

### Applications

Suitable for indoor and some outdoor banner applications in moderate temperatures, such as art galleries, retail and event promotions, long hallways and walkways, showrooms, supermarkets, ceiling displays, museums, theatre lobbies, entranceways, service stations, car-park advertising, sport arenas, backdrops, signage, and trade shows.

### Physical Properties

Product Code	Width		Length		m <sup>2</sup>
023R01589	1524 mm	60"	15 m	50 ft	23
023R01590	1372 mm	54"	15 m	50 ft	21
023R01591	1270 mm	50"	15 m	50 ft	19
023R01593	1067 mm	42"	15 m	50 ft	16
023R01594	914 mm	36"	15 m	50 ft	14

Base Weight	550 g/m <sup>2</sup>
Caliper (microns)	480
Whiteness (CIE)	139
Opacity	100%

## Compatibility

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Printer	Ink Type
Xerox 8142/8160	Dye/Pigment
HP 2XXX/3XXX/5XXX	Dye/Pigment
Epson Stylus Pro 7000/9000/7500/9500/10000	Dye/Pigment
Epson Stylus Pro 7600/9600/10600	Ultrachrome®
Encad Novajet	GA/GS/GS+/GX/GO
Encad 1000i	Dye/Pigment

## Critical Operating Instructions

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- For best results store and use within temperature of 50-77°F (10-25°C) and 35-65% relative humidity. Use within 3 months of purchase as age will impact output quality.
- For mid-distance viewing, image quality expectations are not the same as photo paper. Some banding may be acceptable if not noticeable from the intended viewing distance. Printing in unidirectional mode can minimize banding on some images.
- Avoid putting too much ink on the media as this may cause light spots, especially in heavy coverage areas (such as 4-color blacks). Lower ink limits also improve water resistance. Recommended total ink limit for Xerox 8142/8160 pigment, HP UV+ and Encad GO inks is 215%.
- Leave prints overnight or for a minimum of 12 hours before use to improve weather resistance.
- Do not stack or fold unlaminated images. Use “slip sheets” in carriage to avoid image offset from one unlaminated image to another. Avoid touching with grease, oil, or silicones.

## Xerox Outdoor Weatherproof Banner 280 micron - A Tyvek® Solution

### Product Description

A highly tear-resistant material for producing vivid, full-color images, this white spun Tyvek® has a water resistant coating for indoor and short-term outdoor banners. Images are water resistant for up to 4 months when printed with pigment inks.

The exceptional durability of this media provides maximum flexibility during post print handling, allowing for edge sewing, taping and eyelets. If stitching, a double stitched hem with a maximum of 5 stitches per inch is recommended.

### Applications

Excellent for all indoor and short-term outdoor banner applications including retail point-of-purchase, trade show backdrops, car showrooms, supermarkets, suspended ceiling displays, casino promotions, family gatherings, office parties, museums, art galleries, entranceways, office corridors, banner kiosks, industrial signage (warnings, hazard, etc.) – vertical or horizontal.

### Physical Properties

Product Code	Width		Length		m²
023R01441	1372 mm	54"	20 m	66 ft	27
023R01524	1270 mm	50"	20 m	66 ft	25
023R01523	1067 mm	42"	20 m	66 ft	21
023R01442	914 mm	36"	20 m	66 ft	18

Base Weight	130 g/m²
Caliper (microns)	280
Whiteness (CIE)	115
Opacity	95%

### Compatibility

Printer	Ink Type
Xerox 8142/8160	Dye/Pigment
HP 7XX/8XX/2XXX/3XXX/5XXX	Dye/Pigment
Epson Stylus Pro 7000/9000/7500/9500/10000	Dye/Pigment
Epson Stylus Pro 7600/9600/10600	Ultrachrome®
Encad Novajet	GA/GS/GS+/GX/GO
Encad 1000i	Dye/Pigment

### Critical Operating Instructions

- For best results store and use within temperature of 50-86°F (10-30°C) and 35-65% relative humidity.
- Store the product in its original bag and box.
- Water-resistance tested with HP UV+ inks, Encad GO inks - Good for 3-4 months.
- Leave prints overnight before use to maximize water resistance.
- Structural base characteristics of Tyvek® may show through on prints.
- Unlaminated images are easily scratched and must be stitched hem side up so the sewing machine foot comes in contact with the backside of the print.
- Lamination is recommended for prints requiring satin, matte, high gloss or other finishes and/or prints requiring UV protection or greater general durability if they may be subject to moisture or handling. This media is suitable for pressure (cold) or thermal (hot-melt) laminates. Heavier weight thermal laminates work best on this material. Use at least a 125 or 250 micron laminate to avoid an “orange peel” effect between the media and the laminate.

## Xerox Banner Fabric – Fire Retardant 250 g/m<sup>2</sup>

### Product Description

This high strength, polyester fabric has a heavy, fire-retardant coating and is certified M2 fire retardant. It is therefore an excellent banner material for indoor environments where fire properties are either a legal or general consideration. This is a versatile, functional fabric with excellent tensile strength, bi-directional tear resistance and dimensional stability that can be “finished” to become a vast array of banner and other graphics. It is an alternative to artist canvas where a fabric textured surface adds to the look and feel of a graphic; e.g. fine art applications. This fabric has a non-reflective surface for wide-angle visibility without glare.

Over-lamination is not usually required but for outdoor applications needing protection from dirt, physical abrasion or general weathering use pressure (cold) laminates but **not** thermal laminates. Alternatively use lacquer (liquid lamination) taking care to protect borders and edges.

### Applications

Wide range of banner configurations: various displays in public buildings and indoor spaces, historic buildings, galleries, museums, theatres, hotels, restaurants, sport arenas, shopping malls, showrooms, retail spaces and corridors, for exhibitions, conferences, table front or suspended overhead displays, backdrops, walkway graphics, promotions, political campaign messaging, free hanging, backed or mounted. Also suitable for fine art reproduction giving a high quality, gently textured feel.

### Physical Properties

Product Code	Width		Length		m <sup>2</sup>
023R02162	1524 mm	60"	20 m	66 ft	31
023R02163	1067 mm	42"	20 m	66 ft	21
023R02164	914 mm	36"	20 m	66 ft	18

Base Weight	250 g/m <sup>2</sup>
Caliper (microns)	275
Whiteness (CIE)	127
Opacity	96%

### Compatibility

Printer	Ink Type
Xerox 8142/8160	Dye/Pigment
HP 1XXX/2XXX/3XXX/5XXX	Dye/Pigment
Epson Stylus Pro 7000/9000/7500/9500/10000	Dye/Pigment
Epson Stylus Pro 7600/9600/10600	Ultrachrome®
Encad Novajet	GA/GS/GS+/GX/GO
Encad 1000i	Dye/Pigment

### Critical Operating Instructions

- For best results store and use within temperature of 50-86°F (10-30°C) and 30-65% relative humidity.
- Banner fabric is coated over a porous surface, not smooth like vinyl. The coating layer on top of the peaks in the weave may rub off if oversaturated with ink especially in heavy coverage areas (such as 4-color blacks).
- Can withstand normal handling immediately after printing. Use cotton gloves to minimize the image rub-off during installation (as only a small amount of moisture from hands can enhance the rub-off). “Slip sheets” should be used for carriage to avoid image offset from one print to another.
- Do not use the automatic cutter during media loading or print production.
- Outdoors, this product should be fixed to a flat structure; eg. wall, building side. If hung without protection, wind damage can cause the coating surface to crack, leading to image deterioration.
- Can be stitched with care. Grommets can be used. Roll up finished images. Do not fold as the surface coating may break and spoil the image.

## Xerox Universal Artist Canvas 340 g/m<sup>2</sup>

### Product Description

A coated cotton-based artist canvas intended for fine art reproduction and prints that benefit from a fabric textured surface. This canvas will withstand the process of stretching onto a wooden frame. It is a functional fabric that can also be “finished” for an array of graphics applications, such as indoor banners with sewn edges. The fabric structure enhances the decorative effect and the non-reflective, textured surface gives a feel of quality as well as wide-angle visibility without glare. Canvas is often a material worth considering as an alternative to vinyl. The natural components in canvas give an inevitable variation in the surface characteristics.

With a water-resistant, instant dry coating, this canvas is suitable for practically all inks, and is particularly suited to pigment inks.

### Applications

Artists reproductions and banners. This canvas can be sewn and used as a banner. Excellent for indoor banner applications including retail point-of-purchase, showrooms, suspended ceiling displays, hotel promotions, school events, sport arenas, museums, theatres and art galleries.

### Physical Properties

Product Code	Width		Length		m <sup>2</sup>
023R01503	1270 mm	50"	12 m	40 ft	16
023R01504	1118 mm	44"	12 m	40 ft	14
023R01505	1067 mm	42"	12 m	40 ft	13
023R01506	914 mm	36"	12 m	40 ft	11

Base Weight	340 g/m <sup>2</sup>
Caliper (microns)	380
Opacity	100%

### Compatibility

Printer	Ink Type
Xerox 8142/8160	Dye/Pigment
HP 7XX/8XX/1XXX/2XXX/3XXX/5XXX	Dye/Pigment
Epson Stylus Pro 7000/9000/7500/9500/10000	Dye/Pigment
Epson Stylus Pro 7600/9600/10600	Ultrachrome®
Encad Novajet	GA/GS/GS+/GX/GO
Encad 1000i	Dye/Pigment

### Critical Operating Instructions

- For best results store and use within temperature of 50-86°F (10-30°C) and 30-65% relative humidity. Store the product in its original bag and box.
- The coating sits over a porous surface, not smooth like paper. Some of the coating layer sits on the peaks of the weave, therefore may rub off if oversaturated with ink especially in heavy coverage areas (such as 4-color blacks).
- Properly printed, this material can withstand normal handling immediately after printing.
- Over-lamination is not required, however liquid laminates can be used to enhance the image density. Do not touch with grease, oil, silicones, or dirt.
- Colors may appear to be “flat” when printed. Print test files before beginning any job. If necessary, enhance color in the digital file (darkening Photoshop colors, or choosing alternate PMS process colors) prior to printing on this material.
- **Roll up finished images. DO NOT FOLD as the surface coating may break and spoil the image.**

## Xerox Translucent Repositionable Film 225 micron

### Product Description

A translucent adhesive-backed polyester film designed for use as a one-way, front-viewed window display or a backlit. Low tack adhesive enables easy mounting on all smooth surfaces and can be repositioned without leaving any glue residue. Can also be contour cut for shop window decoration.

### Applications

Ideal for indoor window advertising. Backlit - where light, natural or otherwise, will light up the image and enhance the display effect.

### Physical Properties

Product Code	Width		Length		m <sup>2</sup>
023R01517	1270 mm	50"	20 m	66 ft	25
023R01518	914 mm	36"	20 m	66 ft	18

Base Weight	230 g/m <sup>2</sup>
Caliper (microns)	225

### Compatibility

Printer	Ink Type
Xerox 8142/8160	Dye
HP 1XXX	Dye (& Pigment Black)
HP 2XXX/3XXX/5XXX	Dye
Epson Stylus Pro 7000/9000/7500/9500/10000	Dye
Encad Novajet	GA/GS/GS+
Encad 1000i	Dye

### Critical Operating Instructions

- For best results store and use within temperature of 50-86°F (10-30°C) and 30-65% relative humidity.
- Store the product in its original bag and box.
- Lamination is recommended for prints requiring satin, matte or other finishes and/or prints requiring greater general durability or protection from UV. This media is suitable for pressure (cold) laminates but not for thermal (hot-melt) laminates.



## Xerox Self Adhesive Vinyl 275 micron

### Product Description

A self-adhesive (pressure sensitive) white vinyl designed to adhere to a variety of flat or slightly curved, smooth surfaces using only the slight pressure of a hand or small tool (such as a squeegee). This vinyl has a permanent adhesive coated backing covered by a release liner.

With a water and scratch resistant inkjet coating, it is designed for use in all indoor, and some short-term outdoor applications when properly constructed.

Pigment inks should be used where needed for outdoor applications.

### Applications

For all indoor and some outdoor applications where the printed image is needed to adhere to a smooth, flat or slightly curved surface: general signage, retail and event promotions, trade show displays, galleries and museums, long hallways, showrooms, markets, retail merchandising and display.

### Physical Properties

Product Code	Width		Length		m <sup>2</sup>	Total Weight	290 g/m <sup>2</sup>
023R02153	1524 mm	60"	20 m	66 ft	31	Face Vinyl Caliper (microns)	140
023R02154	1067 mm	42"	20 m	66 ft	21	Total Caliper (microns)	275
023R02155	914 mm	36"	20 m	66 ft	18	Whiteness (CIE)	118
023R02156	610 mm	24"	20 m	66 ft	12	Opacity	99%

### Compatibility

Printer	Ink Type
Xerox 8142/8160	Dye/Pigment
HP 1XXX/2XXX/3XXX/5XXX	Dye/Pigment
Epson Stylus Pro 7000/9000/7500/9500/10000	Dye/Pigment
Epson Stylus Pro 7600/9600/10600	Ultrachrome®
Encad Novajet	GS/GS+/GX/GO
Encad 1000i	Dye/Pigment

### Critical Operating Instructions

- Durability can be up to 3 months dependant on the display site and the inks and laminates used.
- Follow all cleaning and preparation instructions in the Application Ideas & Procedures, Self Adhesive Vinyl section of this guide.
- Test adhesion for substrate prior to actual installation.
- Lamination is recommended for prints requiring satin, high gloss or other finishes and/or prints requiring protection from dirt, abrasion or UV, or greater general durability. This media is suitable for pressure (cold) laminates but not for thermal (hot-melt) laminates.



# Application Ideas and Procedures

## General Hints & Tips

<b>Prepress</b>	<ul style="list-style-type: none"> <li>• Include crop marks for trimming. Precondition the material in a controlled printer environment for 24 hours prior to printing.</li> </ul>
<b>Lamination</b>	<ul style="list-style-type: none"> <li>• Use only laminates approved for use with the base media and the application.</li> <li>• For outdoor use, prints should be fully encapsulated with a 0.16-0.24 inch (4-6mm) sealed edge.</li> <li>• Laminate papers at higher temperature and slower speed to ensure successful laminate adhesion.</li> </ul>
<b>Trimming</b>	<ul style="list-style-type: none"> <li>• ON-PRINTER: Trim with sharp razor or automatic cutter. Ensure knives are sharp and properly adjusted to cut cleanly with minimal dust.</li> <li>• OFF-PRINTER: Ensure images for encapsulation are individually pre-trimmed flush to the edge of the required panel size prior to being laminated.</li> <li>• OFF-LAMINATOR: Trim with sharp hand cutter or large format trimmer. Take precautions to keep prints from slipping or falling to the floor, especially stacked.</li> </ul>
<b>Handling</b>	<ul style="list-style-type: none"> <li>• PRINTS are easily damaged when handled improperly. If not laminated, avoid contact with laser printer or photo copier output. Use a slipsheet when rolling several posters together. Use low tack tape to secure the roll. Do not use rubber bands around an unlaminated print.</li> </ul>
<b>Storage</b>	<ul style="list-style-type: none"> <li>• MEDIA: Store unopened material in a temperature and humidity controlled room. Keep away from direct sunlight and heating/air conditioning vents. If rolls are stored vertically, use core hangers and keep rolls away from direct contact with floor. Do not expose graphics to extreme temperatures.</li> </ul>
<b>Mounting</b>	<ul style="list-style-type: none"> <li>• Posters can be mounted to a substrate; e.g. foamboard. Clean and coat the substrate prior to mounting the graphic, or apply an adhesive coating to the back of the laminated print.</li> <li>• Use the overlap as a skew allowance. Mount a middle panel first to avoid a cumulative skew effect on the entire image. Beginning on either end may result in a skew effect that does not allow panels to match.</li> <li>• Once mounted, the graphic is flipped face down and the excess image is trimmed to fit the edges of the board.</li> </ul>
<b>Shipping</b>	<ul style="list-style-type: none"> <li>• Use a tube whenever possible to ship rolled images. If shipping flat, sandwich posters securely between rigid packaging.</li> <li>• The corners of a mounted print are easily damaged if packaged improperly.</li> <li>• Shipping companies may not handle boxes properly, so take the time and expense before the job is sent to the customer to prepare for any possible mishandling while en route.</li> </ul>
<b>Printing</b>	<ul style="list-style-type: none"> <li>• Choose the appropriate "print mode" for the application and/or media.</li> <li>• "Nest" images as groups based on similar finishing requirements.</li> <li>• Use the media specific RIP curve available with your front-end software. If one is not available, start with the 600 dpi Universal Photo Paper curve as a base, and make alterations to achieve acceptable output.</li> <li>• DON'T COMPARE the image quality of one media to another as different media will result in a different image quality.</li> </ul>

## 1. Poster/Single Panel Print

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### 1.1 Application Definition

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Posters are used to display information in the form of text and/or graphics (vector or photographic) to small audiences. Typically medium sized (approx. 24" wide x 36" tall) and generally intended to be viewed up close or from a short distance. A complete design that is contained within one print is considered a poster, or a "single panel," regardless of whether multiple copies are involved.

Unlaminated posters are images printed on the base material of choice only, such as paper or film, without being "finished" with an overlamine. These posters are not protected from moisture or abrasion damage, and are generally used as indoor signage only for one-time or short-term use.

Laminated posters have a protective layer on the front and/or back of the print to be protected from minor abrasion damage, moisture, and handling. Laminates can either be thermal (hot), or pressure sensitive (cold/heat assist). These products increase print rigidity, may increase image longevity, and are recommended for long-term indoor, as well as short-term exterior applications. Once a poster is laminated it can be installed with tape, Velcro®, pins, tacks, or grommets. It can also be mounted to a substrate or put into a frame or fixture.

### 1.2 Suggested Application Ideas

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Posters, client presentations, point-of-sale graphics, exhibition graphics, museum signage, in-house graphics, mounted prints, exhibit graphics, promotional displays, corporate graphics, wall murals, backlit displays, fine art reproductions, photo-realistic imaging, proofs, directional display and map reproduction.

## 2. Proofs/Check-Plots

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### 2.1 Application Definition

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Any digital design that is printed prior to final approval or project completion to check color, layout, or content is considered a proof. This application does not require good image density, clarity, high resolution, or quality base material. In most cases, the print is to be used only once, then thrown out. Multiple versions with only slight changes may need to be produced. Therefore, an economical grade of paper is preferred as an alternative to a more expensive, presentation grade paper.

### 2.2 Suggested Application Ideas

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Engineering departments for copies of in-progress designs for use in discussion groups

Corporate organization charts or simple direction signs

Government offices to print town/building plans for presentation or checking

Colleges or offices to post simple text posters for meetings/club schedules

Survey/mapping companies to produce interim "proofs" for review prior to final graphic production on high quality media

## 3. Mounted Print

### 3.1 Application Definition

“Mounted” prints, or “display graphics,” are laminated prints applied to a rigid material, such as foamboard. The added support of the mounting surface greatly increases the durability and life of the print. This type of post-print finishing can be utilized for all types of graphics. Sizes and shapes vary depending on the specific application, but, overall, tend to be larger than regular posters. There are several lamination and base material options for this application, all dependent on customer requirements for the final “look” of presentation. When shipping, proper packaging is critical, as mounted prints can damage easily.

### 3.2 Suggested Application Ideas

Posters, sales presentations, framed images, museum signage, in-house graphics, merchandising materials, presentation graphics, exhibit graphics, promotional displays, corporate graphics, wall murals, photo-realistic imaging and map reproduction.

## 4. Multi-Panel Images

### 4.1 Application Definition

Multi-paneled images are laminated prints of virtually unlimited size that require special prepress setup and post-print construction. Accurate measurements, forethought and planning are critical to this application. The prepress operator must obtain specific output expectations from the end-user or installer to ensure that the resulting output is successful. With the help of a computer layout program, images are “tiled” to specific panel dimensions, incorporating overlap or “butt-seam” construction.

### 4.2 Suggested Application Ideas

Event signage, billboards, wallpaper, shopping mall decor, office graphics, public areas, theatrical backdrops, school functions, museum display, art gallery display, showrooms, maps, directional display, architectural plans, landscape plans and arena graphics.

#### Production Notes

- Assembly: Standard overlap amounts are usually 1/2–1 inch (12–25 mm).
- Butt/Perfect Seam: No overlap is created on the digital image.

## 5. Billboard

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### 5.1 Application Definition

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The display size of billboards, as well as the appropriate design, will vary. Quick turnaround and image flexibility are a key advantage of digital printing methods. The final image quality depends not only on prepress and production, but also proper pasting and installation.

Most limitations in expected life of billboards is due to pasting methods. Flagging, chalking, and other problems are due primarily to installation procedures.

### 5.2 Suggested Application Ideas

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Bus shelters, subway advertisements, multi-paneled murals, billboards, event signage and display.

### 5.3 Application Tips

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<b>Prepress</b>	<ul style="list-style-type: none"><li>• Coarse dither patterns at lower resolutions are best for billboards. High-resolution error-diffusion can produce a streaking effect on billboards when viewed at a distance. Panels should be created with a minimum 2–inch (50 mm) internal bleed and a 2–inch (50 mm) external bleed.</li><li>• Panel size should not exceed maximum width one person can handle 48–inch wide (1220 mm) but is usually determined by standard as 42 inch wide (1067 mm).</li></ul>
<b>Printing</b>	<ul style="list-style-type: none"><li>• <b>PRINTER SPEED:</b> Choose the appropriate “Print Mode” for the application and/or media. Print with pigment inks.</li></ul>
<b>Trimming</b>	<ul style="list-style-type: none"><li>• Carefully label panels for easier installation (ex: 1 of 4, 2 of 4, etc.).</li></ul>
<b>Production Notes</b>	<ul style="list-style-type: none"><li>• The whole print may be wetted with paste immediately before application. Use a recommended billboard paste, but do not add alcohol or glycol as this dissolves inks. When applying, use only light pressure to avoid damaging the print.</li><li>• <b>POSTING:</b> Installer should follow standard posting procedures for paper stock. Ensure mounting surface is clean, dry and free of rust and debris. Loose or peeling portions of a previous layer should be removed and rough spots should be feathered by sanding. Unfold wet panel. Align top and edge to be joined. Light pressure with a soft smoothing brush or squeegee should be used to smooth wrinkles and air pockets. Work from the center toward the edges.</li></ul>

## 6. Backlit Display

### 6.1 Application Definition

A high quality, photo-realistic graphic placed in a fixture that is illuminated from the rear is a “backlit” display. The fixture is typically mounted to a wall or stand. The image quality of a backlit graphic should not “wash-out” when viewed under fixture lights or be too dark (or dense) when the lights are turned off. Paper backlit displays are intended for interior or short-term exterior. Using a paper print, laminated or otherwise, sometimes provides a lower cost, high resolution solution allowing customers to change prints more frequently than if using a traditional film material. A blue backing on paper helps to provide a more even light diffusion, masking any mottling from paper fibre formation that becomes evident as a result of the light. Extra opacity helps to maintain strong image color both lit and unlit.

### 6.2 Suggested Application Ideas

Signage, advertising and merchandising, in garages, entertainment centers, bus/rail shelters, airports, metro/underground/subway stations, restaurants, shops, kiosks, window display units, elevators, interior menu boards, exchange rate outlets, price lists, point-of-purchase displays, vending machines.

### 6.3 Application Procedures

<b>Lamination</b>	<ul style="list-style-type: none"><li>Try using a 125 or 250 micron white laminate backing to aid in light diffusion.</li></ul>
<b>Mounting</b>	<ul style="list-style-type: none"><li>Backlit graphics can be mounted to a substrate if required. Typical backlit mounting substrates include Plexiglas® and Lexan®.</li></ul>

## 7. Banners

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### 7.1 Application Definition

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Banners are designed to display short messages in a large manner to audiences from a distance (usually over 10 ft or 3 m). The success of this application largely depends on the design element used as well as the physical placement of the banner. Banners can be installed virtually anywhere from ceilings in shopping outlets to table fronts for exhibit halls. Durable materials make the best choice when creating a banner because of the extreme amount of post print finishing necessary for this application.

For outdoor applications, fabrics and vinyls are used because of their ease of use and durability and resistance to weathering. In more mild conditions of interior banner applications, papers and lightweight fabrics can be considered along with vinyls and fabrics.

### 7.2 Suggested Application Ideas

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Art galleries, retail sales, showrooms, supermarkets, kiosks, ceiling displays, museums, theatre lobbies, entranceways and service stations.

### 7.3 Application Tips

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<b>PrePress</b>	<ul style="list-style-type: none"><li>When printing multiple panels, leave enough gap around the image for appropriate finishing procedure.</li></ul>
<b>Printing</b>	<ul style="list-style-type: none"><li>Use pressure sensitive laminates on banner vinyl for outdoor banner applications.</li><li>Fabric/canvas do not require the use of an over-laminate, however a liquid laminate can be used.</li></ul>
<b>Trimming</b>	<ul style="list-style-type: none"><li>ON-PRINTER: DO NOT use the automatic cutter. Manually trim.</li><li>OFF-PRINTER: CONSIDER the finishing requirements before trimming. Leave enough material to accommodate any pockets, hems or grommets.</li><li>It is best to unroll the finished graphics onto a table and cut between images. Handle the material in roll form for shipping. Wind onto as large a core as possible [minimum diameter 3" (7.6 cm), preferably 6" (15 cm)] Wind the roll image side out.</li></ul>
<b>Stitching</b>	<ul style="list-style-type: none"><li>A double-stitched hem with a maximum of 5 stitches per inch is recommended. Unlaminated images are easily scratched and must be stitched hem side up so that the sewing machine foot comes in contact with the backside of the print.</li><li>FINISH edges using normal procedures for scrim vinyl.</li></ul>



## 8. Self Adhesive Vinyl

### 8.1 Application Definition

An adhesive backed vinyl, or decal, can be directly applied to smooth, flat, or gently curved surfaces such as metal, glass, stainless steel, painted surfaces, etc. This capability saves additional steps for graphics production during imaging, finishing, and print installation. These media are designed for short-term promotional graphics.

### 8.2 Suggested Application Ideas

Excellent for trade shows, bank cash point graphics, drive through windows, construction project signs, bus back advertising, mounted suspended ceiling displays, construction signs, hallway graphics taxi-back graphics, bus side graphics, custom cut wall graphics (nurseries, gift shops, museums, art galleries, retail promotion), sporting events, internal corporate graphics, vending machines, directly applied posters on walls or doors, decals for banners, door graphics, concert promotions, directional signage, short-term window graphics, and political campaigns.

### 8.3 Application Procedures

<b>Lamination</b>	<ul style="list-style-type: none"> <li>• Use pressure sensitive laminates only.</li> <li>• Laminate between 30 minutes and 24 hours after printing, as this material is sensitive to moisture curl.</li> <li>• The over-laminate vinyl should be trimmed to provide 1/4"-3/4" (6-19 mm) of material beyond each edge of the pre-cut graphic to seal the edges of the vinyl. This is necessary to prevent moisture damage to the edges of the print.</li> </ul>
<b>Trimming</b>	<ul style="list-style-type: none"> <li>• ON-PRINTER: DO NOT use the automatic cutter. Manually trim with sharp razor or scissors.</li> <li>• OFF-PRINTER: It is best to unroll the finished graphics onto a table and cut between images. Handle the material in roll form for shipping or subsequent roll-to-roll over-lamination. The graphics can either be wound onto a roll using a laminator wind-up or hand wound onto a core. Use the following precautions when winding onto a core:</li> <li>• Wind onto as large a core as possible [minimum diameter 3" (7.5 cm), preferably 6" (15 cm). Wind the roll image side out.</li> </ul>
<b>Mounting</b>	<ul style="list-style-type: none"> <li>• To avoid scratching the over-laminate, use a cloth sleeve over the applicator "squeegee" when applying over-laminated PSV to a substrate.</li> </ul>

## 8.4 Surface Cleaning and Preparation

**IMPORTANT:** It is the responsibility of the end-user/applicator to ensure all painted substrates have been processed and cured per the paint manufacturer's requirements. Failure to follow paint manufacturer requirements can lead to decal failures and/or removal problems. The surface to which vinyl is applied must be completely clean, smooth, and dry before final preparation. There must be no dirt, oil, grease or solvent residue remaining on the substrate prior to decal application. Prior to cleaning with solvents, test the cleaning solvent on an inconspicuous area of the application surface to check for potential damage from solvent usage. Always test adhesion and paint/adhesive compatibility prior to installation.

Follow all manufacturers' recommended procedures and safety recommendations. Refer to the container label and the Material Safety Data Sheet for health and safety information.

Proper cleaning and preparation of substrate prior to decal application is critical to the success of the decal. The following cleaning and surface preparation conditions must be followed immediately prior to application. Failure to adhere to these requirements can cause adhesion loss and therefore reduce the durability and performance level of the decal. The following conditions are relevant to properly prepared paint systems processed correctly per paint manufacturer specifications.

<b>Pre-Cleaning</b>	<ul style="list-style-type: none"> <li>Remove all dirt and grime with soapy water. If grease, oil, wax, etc., are present, the substrate must be scrubbed with a solvent wipe.</li> </ul>
<b>Final Preparation</b>	<ul style="list-style-type: none"> <li>After proper cleaning, the substrate surface should be thoroughly wiped by using a clean rag saturated with a cleaner.</li> </ul>

## 8.5 Painted Surfaces

<b>Avoid</b>	<ul style="list-style-type: none"> <li>Highly pigmented or flat metallic paints (which tend to chalk and flake promoting poor vinyl adhesion), flat latex paint, all latex paints on wooden substrates, paints containing migratory agents (such as chlorinated waxes and silicone which may cause adhesion failure), oil alkyd primers and enamels (as they are slow to dry and will adversely affect adhesion of a vinyl).</li> </ul>
<b>Recommend</b>	<ul style="list-style-type: none"> <li>The use of high quality exterior grade paints are recommended, followed by substrate cleaning and preparation instructions as specified in above section.</li> </ul>
<b>Precautions</b>	<ul style="list-style-type: none"> <li>Painted metal should have a minimum of one finish coat.</li> <li>If applying film to a newly painted surface, follow all drying and curing instructions provided by the paint manufacturer prior to surface preparation and vinyl application.</li> <li>All air-drying paints should be allowed to dwell at or near room temperature and humidity conditions for one week prior to vinyl application.</li> <li>Baked enamel paints may be used directly upon cooling.</li> <li>Chalked and otherwise weathered paint surfaces must be refurbished with buffing followed by substrate preparation and cleaning instructions as specified in the previous section.</li> <li>Some paint systems provide an extremely smooth surface, hence, initial adhesion will be low—extra dwell time is necessary before maximum adhesion is achieved.</li> <li>Any section of painted metal with bare or rust spots must be entirely resurfaced.</li> </ul>

## 8.6 Other Surface Instructions

<b>Tin</b>	<ul style="list-style-type: none"> <li>Including alloys of tin, copper, magnesium, lead: Not recommended.</li> </ul>
<b>Stainless Steel</b>	<ul style="list-style-type: none"> <li>Stainless steel substrates tend to maintain cold surface temperatures longer than most substrates. The use of a heater immediately before and after application accelerates bond.</li> </ul>
<b>MDF/Wood</b>	<ul style="list-style-type: none"> <li>Generally not recommended.</li> </ul>
<b>Etched Aluminum, ABS, Acrylics (eg. Plexiglass®)</b>	<ul style="list-style-type: none"> <li>Use high quality exterior grade paints.</li> </ul>
<b>galvanized Steel</b>	<ul style="list-style-type: none"> <li>To ensure the substrate is properly galvanized, it is recommended to test all lots of galvanized steel. The following prepared solution is recommended:</li> <li>Prepare 1 molar solution of copper sulphate (25g of <math>\text{CuSO}_4</math> mixed in 1 litre of deionised or purified water). Apply solution to the substrate using a dry clean rag. Surface is properly galvanized if solution turns 'black' - continue with preparation procedures. A resulting 'copper' color indicates lack of galvanizing - do not use steel sheet.</li> <li>Preparation of galvanized steel: Remove any zinc oxide, zinc hydroxide, and the like from the surface by mechanically brushing the surface with a plastic abrasive pad. Degrease with a petroleum-distillate solvent such as Heptane, wipe surface with a clean dry cloth. Wipe surface with isopropyl alcohol, and dry with a clean dry cloth before solvent evaporates.</li> </ul>
<b>Poly-carbonate (i.e. Lexan®)</b>	<ul style="list-style-type: none"> <li>Using a soft, clean, lint free cloth, wipe the surface with isopropyl alcohol, wipe substrate dry BEFORE solvent evaporates. IMPORTANT: Failure to properly prepare polycarbonate before over-lamination may result in severe air bubbles. Test for out-gassing by applying a small sample of film intended to be used to the polycarbonate, then oven bake the applied sample for 18 to 24 hours at 149°F to 158°F (65°C to 70°C). Resulting bubbles under the vinyl indicates out-gassing. If out-gassing occurs, application of vinyl to the polycarbonate is not recommended or warranted.</li> </ul>
<b>Fiberglass</b>	<ul style="list-style-type: none"> <li>Using a soft, clean, lint free cloth, wipe the surface with isopropyl alcohol, and wipe substrate dry BEFORE solvent evaporates. IMPORTANT: Failure to properly prepare before over-lamination may result in severe air bubbles. Test for out-gassing by applying a small sample of film intended to be used to the fiberglass, allow to set at room temperature for 24 hours or oven bake for 3 hours at 149°F (65°C). If bubbles appear, out-gassing is occurring. Cure for 5 days at 140°F (60°C) and repeat test.</li> </ul>
<b>Glass Preparation</b>	<ul style="list-style-type: none"> <li>Glass must be perfectly clean. Remove any tape, stickers, paint, or stain overspray, using a single edge razor blade scraper and/or a 4" razor blade scraper (available at most hardware stores).</li> <li>Spray the glass with cleaning solution once more, dry using a soft rubber window squeegee. Wipe the edges using lint-free cloth.</li> <li>NOTE: Wetting the glass with cleaning solution (DuPont Prepsol or isopropyl alcohol) will reduce the chance of scratching the surface during the scraping process. Use a fresh blade for each job. Check the blade for imperfections that may cause scratches.</li> </ul>

## 8.7 Installation

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Before starting installation, consult the appropriate product data sheet for information regarding minimum and maximum application temperatures, recommended substrates, and immediate service conditions before and after application. These factors are critical to a successful application and future decal performance. Once assured that all factors are understood with respect to the product, and all factors comply with the product recommendations, installation can begin.

<b>Tools</b>	<ul style="list-style-type: none"><li>• Squeegee, heat gun, razor knife, masking tape, hot air burner, marking pencil, straight pin.</li></ul>
<b>Temperature</b>	<ul style="list-style-type: none"><li>• If the substrate surface temperature is below minimum requirements, the substrate must be heated to application temperature to accelerate the ultimate adhesion of the vinyl.</li></ul>
<b>Registration</b>	<ul style="list-style-type: none"><li>• Mark the decal location on the application surface. For multi panel decals the overlap should be at between 0.24 inch and 0.48 inch (6mm and 12mm).</li><li>• NOTE: Do not use application fluid or the “wet method” for installation. Water or application fluid not properly squeezed underneath the vinyl can remain between the substrate and the decal and reduces ultimate adhesion.</li></ul>
<b>Tips and Tricks</b>	<ul style="list-style-type: none"><li>• The decal must be squeegeed before and after pre-mask removal. During pre-mask removal, decals are exposed to potential edge lifting. In order to eliminate this, re-squeegee the decal (especially the edges). Wrap a soft clean rag around the squeegee to prevent potential edge lifting.</li><li>• All smooth body seams or edges must be cut flush with the edge, and be free of caulk, and sealant. The decal must be re-squeegeed along the cut edge to prevent potential edge lifting.</li></ul>

## 8.8 Corrugated/Shaped Surfaces

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These media are not recommended for applications with corrugations or rivets. A specialist cast grade vinyl would be appropriate.

## 8.9 Installation Procedure for Top Hinge Method

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Position the decal on the application surface using small pieces of tape to hold it in place. Once the decal has been properly registered, apply a masking tape hinge along the top edge of the decal. Cut through the masking tape along the sides of the decal, being careful not to score the application surface. Flip the decal up over the hinge and remove the liner. Always remove the liner from the decal.

- Hold the decal away from the application surface with one hand and squeegee from the top center downward and outward. Use firm, short, overlapping strokes. This will help prevent wrinkling of the vinyl and minimize air bubbles. Remove the masking tape hinge (if one was used). Re-squeegee the top edge to which the tape hinge was applied using overlapping, upward strokes.
- Remove the pre-mask/application tape (if pre-mask was used) from the decal by peeling back on corner and pulling back at a 180° angle.
- Re-squeegee the entire decal using very firm squeegee pressure, including all edges. Puncture any air bubbles with a straight pin and re-squeegee from the edge of the bubble towards the puncture.

## 8.10 Professional Installation

The above information provides basic information on how to apply vinyl graphics. The instructions are designed to help ensure success across a broad range of applications. Depending on the size and complexity of applications, a certain amount of expertise is needed.

Professional installers can be hired to ensure proper application of finished graphics.

## 8.11 Removal Instructions

Substrate surface (e.g. painted vs. unpainted) will combine to make each removal slightly different. The purpose of these instructions is to provide a general removal method useful in many situations. Always test a small area prior to decal removal to ensure that the substrate will not be damaged.

<b>Tools</b>	<ul style="list-style-type: none"> <li>Weed burner/heat gun, razor knife, putty knife, cleaning solvent.</li> </ul>
<b>Precautions</b>	<ul style="list-style-type: none"> <li>Follow all instructions and safety warnings when using solvents and chemicals.</li> </ul>
<b>Cold Pull Method</b>	<ul style="list-style-type: none"> <li>With a weed burner, heat entire decal by holding heat source approximately 6 to 12 inches away from surface. After heating entire decal for approximately 30–60 seconds, loosen a corner of the decal and pull back slowly</li> <li>A slow, steady pulling and lifting action at less than a 90° angle will usually prevent vinyl from breaking and will remove most of the adhesive from the substrate. If decal becomes hard to pull, stop, reheat decal, and proceed.</li> <li>NOTE: Adhesive residue may be removed by wiping with a clean saturated rag of XXL1000 decal remover, heptane, Xylene, and/or mixture of 75% MEK/25% Toluene.</li> </ul>
<b>Chemical Method</b>	<ul style="list-style-type: none"> <li>XXL1000 decal remover is recommended. It is an environmentally safe, non-toxic, non-flammable decal remover that will minimize the time required for removal. Instructions for XXL1000 decal remover are:</li> <li>Apply with spray dispenser. Wait 10–15 minutes until vinyl begins to bubble. Peel vinyl from surface.</li> <li>If vinyl doesn't remove easily, a hot water pressure washer can be used.</li> <li>If adhesive remains, apply XXL000 again and wait 3–5 minutes before repeating pressure wash.</li> </ul>

## 9. Fabric

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### 9.1 Application Definition

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The high strength and scope of finishing options for fabrics make them ideal for use in banner, flag, drapery, and paneled backdrop applications, also for stretching over a wood frame for display of fine art reproductions.

Fire retardant properties are a consideration when a graphic is to be displayed in environments with the most stringent regulations, such as government facilities, museums, art galleries, hotels, convention centers and schools, etc.

### 9.2 Suggested Application Ideas

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Trade shows (table fronts, overhead), hanging displays, hallways and corridors, museums and art galleries, retail sales and shopping centers, theatre lobbies or backdrops, restaurants, showrooms, events, sport arenas.

### 9.3 Application Procedures

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<b>Prepress</b>	<ul style="list-style-type: none"><li>Do not put too much ink on the media or images may rub off easily, especially in heavy coverage areas. Use the correct color curve. Color enhancement to the digital file (such as altering single-color blacks to 4-color blacks, etc.) may help to increase intensity of colors before RIP processing.</li></ul>
<b>Stitching</b>	<ul style="list-style-type: none"><li>A double stitched hem with a maximum of 5 stitches per inch is recommended. Unlaminated images are easily scratched and must be stitched hem side up so that the sewing machine foot comes in contact with the backside of the print.</li><li>FINISH edges using normal procedures for scrim vinyl (grommets, stitching, tape, pockets, etc.). Standard banner tape purchased from a banner supply store is appropriate.</li></ul>
<b>Handling</b>	<ul style="list-style-type: none"><li>PRINTS are easily damaged when handled improperly. If unlaminated, avoid contact with laser printer or photocopier output. Use a slipsheet when rolling several posters together. Use low tack tape to secure the roll. Do not use rubber bands around a print that is not laminated.</li><li>Properly printed, this material can withstand normal handling immediately after printing. This fabric is coated across a porous surface, not smooth as in papers or vinyl. Some of the coating layer tends to "sit" on top of the peaks and valleys of the weave; therefore, it may exhibit a tendency to rub off if handled improperly. Try wearing cotton gloves to minimize image offset.</li></ul>
<b>Production Notes</b>	<ul style="list-style-type: none"><li>Place grommets lengthwise along the hemline of the banner so that the grommet is through two layers, and in the corners of the banner through 4 layers. The folds can be taped with standard banner tape or sewn.</li></ul>

## 10. CAD/GIS, Engineering and Technical

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### 10.1 Technical Applications

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In addition to the media described in this guide, Xerox offers a standard range of uncoated and coated opaque white papers, tracing papers and polyester drafting film for CAD and certain GIS applications. Please ask your Xerox supplies sales representative.

Dye inks are perfectly adequate for most working CAD drawings. Pigment inks should be used for archive drawings or maps, or any print where a high degree of image durability is required.

### 10.2 Archive Stability

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#### Definition of Archive Stability

The potential for the collective attributes of a print, which include the physical and chemical properties of the inks and media with which it was generated, to resist changes from their initial state during an indefinite period of storage within a controlled environment.

For prints generated within the approved specification for materials and conditions using Xerox 8142/8160 printer with pigment inks, image legibility, or print life, will be sustained for the normal observer, with regard to the following degrees of image permanence and durability afforded by the related conditions of referral:

- **High Image Permanence and Durability** – Print Life of at least 100 years: Requires Low Frequency and Duration of Referral, or equivalent combinations, not to exceed 60 minutes of exposure per year.
- **Medium Image Permanence and Durability** – Print Life of at least 50 years: Requires Ordinary Frequency and Duration of Referral, or equivalent combinations, not to exceed 12 hours of exposure per year.
- **Low Image Permanence and Durability** – Print Life of at least 20 years: Requires High Frequency and Duration of Referral, or equivalent combinations, not to exceed 208 hours of exposure per year.

NOTE: This statement excludes prints archived in improperly controlled environments, prints damaged in any manner during referral, regardless of circumstance, and prints subject to continuous referral. It remains contingent on printer component design and supplies formulations, which are subject to change at the discretion of Xerox.

## 11. Archive Conditions and Specifications

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### Archival Environment

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NOTE: Given the myriad of preparation techniques, which include folding, rolling, flat stacking and hanging of single or multiple prints, only image legibility is considered.

There are four environmental components that affect image permanence, durability, and therefore legibility: water content (% relative humidity), elemental content (e.g. salt, NaCl), radiation (exposure to light), and heat.

Xerox specifies an ambient archival environment of no greater than 70°F, 50% Relative Humidity, and total darkness. A temperature and/or humidity lower than 70°F, 50% RH can afford additional increases in permanence and durability.

**Conditions of Referral:** Each time a print is referred, or removed from archive storage, its environment and, therefore, archive life expectancy is considered changed. Print referral is restricted to the indoor environment, utilizing typical office (fluorescent) lights.

**Frequency is described as follows:**

1. Low: Once a year, or less, and not in excess of 4 times per year.
2. Ordinary: More than 4 times/year, and not in excess of 12 times/year.
3. High: More than 12 times per year, and not in excess of 52 times/year.
4. Maximum: More than 52 times per year.

**Duration of exposure to a non-archival environment is described as follows:**

1. Low: No more than 15 minutes per referral.
2. Ordinary: 15 minutes to 1 hour per referral.
3. High: 1-4 hours per referral.
4. Maximum: More than 4 hours per referral.

The state of continuous referral exists when a print is seldom or never placed in an archival environment during its life; the combination of maximum frequency and maximum duration is considered as continuous referral.

Combining a degree of frequency with the matching degree of duration results in a specific number of hours per year through which the print can be exposed. The hours of exposure dictate the permanence and durability of an image, and the print life. Varying degrees of frequency and exposure can be combined to yield a general life expectancy in years.



# Lamination Overview

## Introduction

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Lamination is the most critical portion of graphics construction to the overall quality of a print. Finishing the print offers a value-added service by the print provider that will produce higher revenues per print, while increasing overall demand. Lamination protects the print from mechanical damage that may be caused by contact, handling or abrasion, but an over-laminate also protects dye ink prints from color deterioration as atmospheric components react with the colorants over time.

- Always laminate a graphic if it is to be exposed to extreme conditions or abrasion.
- Lamination adds a gloss or lustre finish, as well as enhancing colors (without altering the color) depending on the laminate used.
- If the print is displayed under harsh lighting, use a matte finish to reduce glare.
- Use heavier grades of laminate to add bulk and stiffen prints or add a high gloss appearance.

Inappropriate lamination technique is the leading cause of material waste. This information is intended to be a starting point. Each laminator has its own characteristics, which vary depending upon ambient conditions, laminator adjustments, age and condition of the laminator, etc. Temperature, pressure, speed and tension adjustments may need to be made to optimize laminate bond and to obtain flat, wrinkle-free prints.

## Understanding Laminates

**IMPORTANT:** Use the appropriate laminate for your media and your application. Check the appropriate media specification sheet to verify if certain laminates are not appropriate; e.g. some media must only be over-laminated with cold laminates.

<b>Laminate Types</b>	<ul style="list-style-type: none"> <li>• <b>THERMAL</b> laminates consist of a polyester face film with heat-activated adhesive on one side. With heat applied to the adhesive via the laminator the adhesive melts (activates). Once the heat source is removed it sets within a few seconds. An extremely durable product that gives excellent scuff and scratch resistance. PET based laminates are tough with high tear and impact strength, and are flexible once applied. Since PET laminates do not contain plasticisers, they do not become brittle with age under normal conditions.</li> <li>• <b>PRESSURE SENSITIVE</b> laminates have a face film with a pressure sensitive adhesive applied to one side. This type of lamination does not use heat to activate the adhesive. Adhesive is activated by pressure alone.</li> </ul>
<b>Laminate "Looks"</b>	<ul style="list-style-type: none"> <li>• <b>GLOSS:</b> Provides maximum clarity and color enhancement and is used when the customer desires a 'photo-glossy' look.</li> <li>• <b>SATIN/LUSTRE:</b> Gives a less glossy finish while maintaining excellent clarity and color enhancement. Should be used when there is concern about light reflections (glare) but the image benefits from some degree of gloss.</li> <li>• <b>MATTE:</b> Least glossy finish while maintaining good clarity and color enhancement and should be used to eliminate or minimize glare.</li> </ul>
<b>Laminate Composition</b>	<ul style="list-style-type: none"> <li>• A lamination film is a post-printing material made of two parts: polyester and adhesive.</li> <li>• "Construction" refers to the film and glue relationship. Construction is typically described by micron or mil thickness, eg; 5 mil laminate will be described as having a 3/2 construction (3 mil polyester/2 mil adhesive). 1 mil = 25 microns.</li> <li>• It is the polyester that affects color saturation and gives you rigidity. The greater the ratio of polyester to adhesive, the better the quality of film. A 5 mil laminate with a 3/2 construction is higher quality than a 5 mil laminate with a 1/4 construction.</li> <li>• All laminates are not the same. Typically laminates that have thinner face films (economy construction) will be more problematic than those with a thicker polyester layer. Thinner face films will stretch and distort much easier creating wrinkles and other image defects.</li> </ul>

**Quality Construction**  
3 mils Polyester + 2 mils Adhesive



**Economy Construction**  
1 mil Polyester + 4 mils Adhesive



## Lamination Production Notes

This information is intended to be a starting point. Each laminator has its own characteristics that may vary depending upon ambient conditions, laminator adjustments, age and condition of the laminator, etc. Temperature, pressure, speed and tension adjustments may need to be made to optimize laminate adhesion to the base material and to obtain flat, wrinkle-free prints.




























































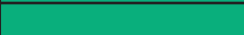



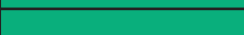






<b>Production Notes</b>	<ul style="list-style-type: none"> <li>• Make certain that high saturation areas of the print have completely dried before laminating.</li> <li>• Grommets may be added to laminated or vinyl prints to aid in display. To avoid tearing, strengthen the print prior to setting the grommets by adding a 2" triangle of heavy laminate between the grommet and the back of the print.</li> <li>• Encapsulate prints intended for outdoor applications.</li> </ul>
<b>Cautions</b>	<ul style="list-style-type: none"> <li>• Most problems with lamination are caused by uneven tension in the laminator web.</li> <li>• If laminated prints curl up, the top laminate tension is too high. Likewise, if the print curls downward, the bottom laminate tension is too high.</li> <li>• "Boat waking" can occur when the nip pressure is too high or too low or pull tensions are too low.</li> <li>• Improper cooling after lamination can result in wavy finishes or other defects.</li> <li>• Uneven waves or wrinkles can indicate a misaligned roller. Do not attempt to adjust a laminator roller without proper instructions from the manufacturer.</li> <li>• "Silvering" can occur if heat or pressure is too low, or speed is too high. This can also happen if there is too much moisture in the media prior to lamination. Heating, or pre-drying, before laminating the prints might ease this problem.</li> <li>• Keep the laminator supplies, media, and all work areas clean. Any debris trapped under laminates cannot be removed.</li> <li>• Static charges build on laminator and supply rolls. This might attract dust. A static elimination device may help.</li> </ul>

- **IMPORTANT:** Avoid using low melt laminates where possible. Hot melt adhesives generally give greater adhesion. Use pressure laminates where print media requires. De-lamination could occur if heat and pressure settings are not correct for the media.
- Uneven waves or wrinkles can indicate a mis-aligned roller. Do not attempt to adjust a laminator roller without proper instructions from the manufacturer.
- Silvering can occur if heat or pressure is too low, or speed is too high. This can also happen if there is too much moisture in the media prior to lamination. Heating, or pre-drying, before laminating the prints might help correct this problem.
- Keep the laminator supplies, media, and all work areas clean. Any debris trapped under laminates cannot be removed.
- Static charges build on laminator and supply rolls. This might attract dust. A static elimination device may help.
- Refer to the Supplies Data Sheets section of this book to obtain instructions regarding lamination requirements for specific media. Use temperature tape to verify NIP temperature before laminating prints, especially prior to beginning multiple quantities or oversized projects. Some laminators may have to be set higher in order for the NIP to reach optimal temperature.

## Lamination/Media Guidance

### Xerox Aqueous Inkjet Media

 Suitable  Not Suitable

		Thermal Laminates	Pressure Laminates
Premium Coated CAD Paper	95 g/m <sup>2</sup>		
Matte Presentation Paper	90 g/m <sup>2</sup>		
Matte Presentation Paper	120 g/m <sup>2</sup>		
Matte Presentation Paper	160 g/m <sup>2</sup>		
Poster Presentation Paper	120 g/m <sup>2</sup>		
Poster Presentation Paper	170 g/m <sup>2</sup>		
Photo Paper	150 g/m <sup>2</sup>		
Universal Photo Paper	175 g/m <sup>2</sup>		
Universal Photo Paper	195 g/m <sup>2</sup>		
Universal Photo Paper	215 g/m <sup>2</sup>		
Universal Photo Paper	285 g/m <sup>2</sup>		
Display Paper	95 g/m <sup>2</sup>		
Display Paper Fire Retardant	120 g/m <sup>2</sup>		
Outdoor Poster Paper – Blue Back	120 g/m <sup>2</sup>		
Canvas Paper	180 g/m <sup>2</sup>		
Optically Clear Film	120 mic		
Optically Clear Film – 2 edge strip	100 mic		
White Opaque Glossy Film	120 mic		
Backlit Film – Back Print	130 mic		
Backlit Film – Front Print	140 mic		
Metallic Film	100 mic		
Polycarbonate Pop-up Film – Back Print	275 mic		
Light Stop Pop-Up Film – Front Print	300 mic		
Light Stop Pop-Up Film – Front Print	150 mic		
White Matte Banner Film	200 mic		
Banner Polyester	290 mic		
Matte Polypropylene Banner	185 mic		
Matte Polypropylene Banner	320 mic		
Banner Vinyl	250 g/m <sup>2</sup>		
Banner Vinyl – Outdoor	550 g/m <sup>2</sup>		
Outdoor Weatherproof Banner - Tyvek®	280 mic		
Banner Fabric Fire Retardant	250 g/m <sup>2</sup>		
Universal Matte Artist Canvas	340 g/m <sup>2</sup>		
Translucent Repositionable Film	225 mic		
Self Adhesive Vinyl	275 mic		

# Glossary of Terms

## A

3-Color black	Area of solid Cyan, Magenta, and Yellow inks combining to form a black.
Accelerated Light Testing	Equipment is used to expose materials to light, at elevated energy levels, more concentrated than the actual light source.
Adhesion	A bond between two surfaces. A substance capable of holding materials together by surface attachment.
Adhesion, Initial	Force required to remove a pressure sensitive material from a substrate (Important: this force can only be measured under specific, standardized conditions to obtain reliable and comparable results.
Adhesion, Peel	Peel adhesion, measured 20 minutes after the self-adhesive material has been applied.
Adhesion, Ultimate	Peel adhesion, measured 24 hours after application of the self-adhesive material.
Adhesive, Permanent	An adhesive that provides permanent bond to a wide variety of surfaces.
Adhesive, Removable	A pressure sensitive adhesive characterized by low ultimate adhesion to a variety of surfaces.
Adhesive, Repositionable	An adhesive that permits removal and re-positioning shortly after application, prior to development of ultimate adhesion.
Application	A method of creating a graphic for a specific purpose. This can include materials, printing, finishing and construction methods.

## B

Backlit	A print illuminated from behind. These prints may also be viewed from the front with the back lighting off.
Bleed	The amount an image extends past the desired size of a print. This extra image area allows for errors in sizing and positioning during finishing.
Boat waking	During lamination, uneven tension can cause ripples in the prints. Boat waking is when ripples originating at the center of the print extend diagonally out towards the edges.

## C

Calendered PVC	A PVC (poly vinyl chloride) sheet formed by means of system of cylinders, distributing and pressing the PVC into a sheet of the required caliper.
Caliper	The distance between the 2 surfaces of a material, measured in microns.
Cast Coated PVC	A PVC sheet manufactured by using PVC onto a web of coated paper. This technique allows the production of PVC sheeting with low caliper, high flexibility and excellent dimensional stability.
Chemical Resistance	The resistance of a material to the deterioration effects resulting from exposure to chemicals under specified conditions.

Cohesive Strength	The internal strength of an adhesive, often determined by the force required to split or separate it internally.
Conformability	The ability of a material to adjust itself to the contours of a surface.
Curl	The tendency of a paper or laminate to bend around the axis of one of its main directions.
Cyan, magenta, yellow	The subtractive (process) primaries

## D

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DPI	Dots per inch.
Decal	Decals are laminated prints with some adhesive applied to the back.
Dimensional Stability	The ability of a material to retain its original dimensions when subjected to specific exposure conditions.
Dither	The process of distributing dots to create the appearance of a solid hue and tint. The dither patterns used in inkjet printing will determine the sharpness, color, contrast, and saturation of a print.
Durability	The time period a graphic will retain an acceptable appearance for its intended use under the specific exposure conditions (eg. indoor, moderate = normal office environment with limited window exposure and outdoor, moderate = climate with mild temperature ranges, low humidity, and minimal ambient UV and pollution exposure).

## E

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Elongation	Increase in length of material brought on by extending it to breaking point.
Emulsion	A dispersion of fine particles or globule of a liquid normally incompatible.
Encapsulate	When the top and bottom laminates extend past the edge of a print, they form a bond that seals out dirt and moisture. This aids in outdoor durability. Proper temperature and pressure required for an even, permanent seal.
Error diffusion	Most common method of creating a dither pattern for electrostatic prints. This method uses statistical analysis to reduce patterns and maximize even saturation in colors.
External bleed	The amount an image extends past the desired size of a print. This extra image area allows for errors in sizing and positioning during finishing. External bleed is measured outside the final trim dimension of the print. An external bleed of 0.5" will create a print 1" larger than required.

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**F**

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Face Material	Any paper, film, fabric, etc. adhesive coated on the backside. In laminates, it is the material to display image.
Fading	The process of degradation of color brilliancy.
Failure Rate	Actual number of prints or “finishing material” destroyed during the production process. The print provider can have a print failure without a “finishing material” failure. But a “finishing material” failure always results in a destroyed print.
Final Trim	Final trim is the actual size of the finished print, usually as displayed.
Finish	Surface property of a material determined by its surface contour and gloss.
Finishing Material	Generic term representing any number of materials in post-print production for application assembly. An example of a “finishing material” would be banner vinyl used in the assembly of the application Indoor Vinyl Banner.
Fleet Markings	General term applied to decals (for promotion) or pressure sensitive applications designed and produced for customers having more than one company-owned vehicle for business use, delivery transport use, etc.

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**G**

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Gloss	Light-reflective property of a surface.
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**H**

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Haze	Property of transparent film that appears as a reduced look-through.
Heat Resistance	The ability of a material to resist physical or chemical changes caused by exposure or elevated temperatures.
Hue	A color’s name.

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**I**

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Ink Coverage	Ink coverage is the coverage at a particular point on the surface of the media (i.e., 0-400% ink) and varies throughout an image.
Internal Bleed	Amount an individual panel extends over a seam between panels. An internal bleed of 1/3 inch (10 mm) will give 3/4 inch (20 mm) overlap between adjacent panels.

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**J**

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Job Orientation	Print dimensions for width and height of a file as it is going to be printed. Height could also be referred to as length.
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## L

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Laminate	Any protective, transparent material applied to either side of a print. Available in many thicknesses (1.5 mil to 10 mil), finishes (gloss, lustre, matte), with anti-graffiti treatments and scratch resistance. Laminates with heat-activated adhesives are known as hot laminates. Pressure activated laminates are known as cold laminates.
Laminate Bead	When the top and bottom laminates extend past the edge of a print, they form a bond that seals out dirt and moisture. This aids in outdoor durability. Proper temperature and pressure is required for an even, permanent seal.
Lay-Flatness	The ability of a self-adhesive laminate to remain flat under changing temperature/humidity conditions.
Lightfast	The ability to withstand a predetermined amount of light with minimal or acceptable change.

## M

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Migration	The movement of one or more components from one material into another. (e.g. plasticizer from film to ink, plasticizer from film to adhesive, etc.)
Mottle	Random blotchy irregular pattern in solid fill areas giving loss of density.
Mounting	The process of adhering a digital print to a substrate using an adhesive, either on the back of the laminated print or coating the substrate.

## N

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Nip	The gap between the heat or pressure rollers of a laminator.
Normal Observer	Person whose visual acuity and color perception fall within normal limits.

## O

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Opacity	The degree to which a material can prevent the transmission of light.
Overlamine	Typically a pressure sensitive (cold) laminate that is applied on top of a finished print (usually vinyl) to add durability, special finishes, increased thickness or other characteristic.
Over saturation	Excessive amount of ink placed onto media causing image to bleed through to the backside of the media.

## P

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plasticizer	Component of plastic materials that provide flexibility.
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**R**

Red, Green, Blue	The additive (display) primaries.
Referral	The state in which a print is being handled and/or viewed.
Reflective	Colors that are seen after they bounce off an object's surface.
Release	The force required to separate a pressure sensitive laminate. This force varies with test conditions - peel speed, temperature and peel angle, etc.
Release Coat	The coating applied to the backing paper, which enables the latter to separate readily from pressure sensitive adhesives.
Rough Trim	Prior to final trim, it may be necessary to trim the print to approximate size for ease in handling. When final trim is not known until at the display site, rough trim may be used.

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**S**

Saturation	The relative colorfulness or chromaticity of a color.
Secondary Color	The color that results when two primaries are added or mixed together.
Shade	The result of adding black to a pure hue.
Silvering	A problem occurring during lamination. It is seen as a silver sheen or discoloration in dark areas. The silvering is produced by very small bubbles in the adhesive layer of the laminate, usually indicating separation due to low pressure, low heat, or high speed.
Solvent Resistance	The resistance of a pressure sensitive material to the action of specific organic liquids.
Stiffness	The property of a material that enables it to resist bending forces.
Substrate	The surface to which a self-adhesive material is to be adhered.

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**T**

Tack	The property of a pressure sensitive material that causes it to adhere to a surface under conditions of low pressure and short contact.
Tear Strength	Property measured by the force required to tear a specimen under specified test conditions.
Tensile Strength	The force required to break a material under specified test conditions.
Tint	The result of adding white to a pure hue.
Translucent	Transmitting light in a diffuse manner so that the object beyond cannot be clearly distinguished, partly transparent.
Transparency	The light transmission rate of a clear film.
Transmitted	Colors that are seen through a transparent or translucent object.
Trim	The final size of a finished graphic. Usually the final trim is the size of the print as it is displayed.

## U

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UV Light	An invisible light radiation. This may change properties of paper, plastics or inks after prolonged exposure.
UV Stabilizer	A chemical compound which absorbs UV radiation selectively, preventing or delaying a change in characteristics of a plastic material or adhesive.

## V

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Value	A color's lightness, darkness, or brightness.
Voids	Small circular non-imaged areas with or without dark centers. Voids can be partially colored with one or more colors.

## W

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Water Fast/Water Resistant	Ability to withstand the effects of water with minimal or acceptable change.
Water Proof	The ability to be unaffected by water.
Weather-ability	The ability of a material to withstand the effects of exposure to weather conditions, without significant change in physical or chemical properties.
Weather Testing	Material is subjected to the actual environments that they need to be used in (accelerated weathering is not possible).
White, Black and Gray	Colors that have no hue, only value.
Worms	Wiggly colored streaks in an image. Can show in many ways. For example, could appear to look like trails of water droplets or a finger painting.
Wrinkle	Folds, wrinkles, or stretch marks in media.



